	of Respondent umers Energy Company	This Report Is: (1) X An Origina (2) A Resubm			Date of Report (Mo, Da, Yr) / /		Year/Period of Report End of2004/Q4		
		ELECTRIC EN	IERG'	Y ACCOUN	Т				
Rep	port below the information called for concerning	ng the disposition of electr	ic ene	rgy generat	ed, purchased, exchange	d and wi	heeled during the year.		
Line	Item	MegaWatt Hours	Line		Item		MegaWatt Hours		
No.	(a)	(b)	No.		(a)	ł	(b)		
	SOURCES OF ENERGY	(3)	21	DISPOSIT	ION OF ENERGY				
1	Generation (Excluding Station Use):	Section 1	22	Sales to U	Itimate Consumers (Includ	ling	33,039,318		
	Steam	19,033,045		Interdepart	tmental Sales)				
	Nuclear	5,335,635	23	Requireme	ents Sales for Resale (See	,	426,418		
	Hydro-Conventional	445,076			4, page 311.)				
	Hydro-Pumped Storage	1,333,581	24	1	irements Sales for Resale	(See	2,515,010		
	Other	8,498			4, page 311.)				
8	Less Energy for Pumping	1,872,029			rnished Without Charge		47.426		
9	Net Generation (Enter Total of lines 3	24,283,806	26		sed by the Company (Elec	tric	17,436		
	through 8)				, Excluding Station Use)		2,737,552		
10	Purchases	14,451,928	1	Total Ener		ough	38,735,734		
11	Power Exchanges:		28	1	nter Total of Lines 22 Thro TEQUAL LINE 20)	Jugn	30,733,734		
12	Received		<u> </u>	27) (1003	I EQUAL LINE 20)				
1	Delivered		1	1					
ı	Net Exchanges (Line 12 minus line 13)								
15	Transmission For Other (Wheeling)		4						
16	Received		1						
l	Delivered		1						
18	Net Transmission for Other (Line 16 minus line 17)								
19	Transmission By Others Losses		4						
20	TOTAL (Enter Total of lines 9, 10, 14, 18	38,735,73	4						
	and 19)		4						
ł									
			1						
			1						
			1						
L									

Name	e of Respondent		This Report Is: (1) X An Original	Date of Report (Mo, Da, Yr)	Year/Period	2004/Q4
Cons	sumers Energy C	ompany	(2) A Resubmission	/ /	End of	2004/Q4 ————
			MONTHLY PEAKS AN	D OUTPUT		
inforr (2) R (3) R (4) R	nation for each n eport on line 2 by eport on line 3 by eport on line 4 by	y peak load and energy output. It on- integrated system. y month the system's output in My month the non-requirements say month the system's monthly mand 6 the specified information for	legawatt hours for each month ales for resale. Include in the m aximum megawatt load (60 min	nonthly amounts any energy lo nute integration) associated wi	osses associated with	
NAM	E OF SYSTEM:					
Line			Monthly Non-Requirments Sales for Resale &	MC	ONTHLY PEAK	
No.	Month	Total Monthly Energy	Associated Losses	Megawatts (See Instr. 4)	Day of Month	Hour
	(a)	(b)	(c)	(d)	(e)	(f)
29	January	3,396,290	155,620	5,615	6	1900
30	February	3,055,723	122,427	5,339	5	2000
31	March	3,378,584	392,098	5,076	16	2000
32	April	3,179,225	505,076	4,693	19	1100
33	May	3,243,289	419,583	5,288	12	1400
34		3,204,448	192,028	6,667	9	1200
35	July	3,394,989	160,131	6,958	21	1700
	August	3,369,016	146,744	6,825	2	1500
	September	3,162,722	85,068	6,279	15	1700
	October	2,943,538	71,597	4,802	18	2000
	November	3,029,303	200,663	5,209	29	1900
	December	3,378,607	258,589	5,750	20	1900
41	TOTAL	38,735,734	2,709,624		Tarana da	

	(Dday)	Thie P	eport Is:		D	ate of Report	Ye	ar/Period of	Report	
	of Respondent	(1)	X An Ori		(N	lo, Da, Yr)	l		)4/Q4	
Consu	mers Energy Company	(2)	A Res	ubmission		' /				
	STEAM-EL	ECTRIC	GENER	RATING PLAN	STATISTIC	S (Large Plants	s)			
1 Per	a to the Outermonto	nto oro o	toom nis	nte with install	ed capacity (r	name plate rati	na) of 25,000	Kw or more.	Report in	
	a A 16 1 I de la maiorité	aa ia nat	างงานากเล	ווש בזבח פעות ב	icu is availabi	E. SUCCIIVIIIG D	C110a. 0. 11 1	u.,, 0,,,,,,,,,,		
	int facility.  4. If net peak demand for 60 filling han one plant, report on line 11 the approximate basis report the Btu content or the gas and the q									
therm	basis report the Btu content or the gas and the q it of fuel burned (Line 41) must be consistent wit	luantity (	of fuel but	ense accounts	501 and 547	(Line 42) as sh	now on Line 20	). 8. If mo	re than one	
per un	it of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hea	it rate fo	r all fuels	burned.	001 0	(				
tuei is	burned in a plant furnish only the composite hea								ŀ	
Line	Item			Plant			Plant Name: <i>Cobb</i>	15		
No.			1	Name: Campb	ell 1 & 2 (b)	1	Name: Cobb	7-3 (c)		
	(a)				(0)					
	Turk Nuslean					Steam			Steam	
	Kind of Plant (Internal Comb, Gas Turb, Nuclear					Conventional			Conventional	
	Type of Constr (Conventional, Outdoor, Boiler, e	(10)				1962			1956	
	Year Originally Constructed					1967			1957	
	Year Last Unit was Installed	ns-MW)				668.90			312.50	
5	Total Installed Cap (Max Gen Name Plate Rating Net Peak Demand on Plant - MW (60 minutes)	93-14144)				631			346	
	Plant Hours Connected to Load					8784		8		
	Net Continuous Plant Capability (Megawatts)					0			0	
	When Not Limited by Condenser Water					620			320	
	When Limited by Condenser Water					615			312	
	Average Number of Employees					143			104	
12	Net Generation, Exclusive of Plant Use - KWh					4052510100			2092083200	
	Cost of Plant: Land and Land Rights					1949688			113291	
14	Structures and Improvements					75844442			19529174	
15	Equipment Costs					304741053			111011037	
16	Asset Retirement Costs					0			420052502	
17	Total Cost					382535183			130653502 418.0912	
18	Cost per KW of Installed Capacity (line 17/5) In	cluding				571.8870			2247317	
19	Production Expenses: Oper, Supv, & Engr					2857362			33377160	
20	Fuel					59932254 0			0	
21	Coolants and Water (Nuclear Plants Only)					2274460			2246657	
22						0			0	
23						0			0	
24				<del> </del>		1494934			919656	
25						1560313			1068681	
26						0			0	
27	Rents					1390902			1020280	
28						1233848			857250	
29						588527			1104971	
30	Maintenance of Structures  Maintenance of Boiler (or reactor) Plant			<del>                                     </del>		5677013			3514806	
31				<del>                                     </del>		1295172			1726616	
32	- Division of the control of the con	t				424987			171142	
34						78729772			48254536	
35						0.0194			0.0231	
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Coal	Oil		Coal	Gas		
37	to the state of th	dicate)		Tons	Barrels		Tons	Mcf	<del>ا</del>	
	Quantity (Units) of Fuel Burned			2051500	9561	0	1127439	176295	0	
39	Avg Heat Cont - Fuel Burned (btu/indicate if n	uclear)		19649454	5838000	0	18661692	1017998	0	
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during y	ear		25.894	46.221	0.000	29.566	6.678	0.000	
41	Average Cost of Fuel per Unit Burned			26.983	46.221	0.000	27.759	6.678	0.000	
42	Average Cost of Fuel Burned per Million BTU			1.373	7.917	0.000	1.487	6.560	0.000	
43	Average Cost of Fuel Burned per KWh Net G	en		0.014	0.000	0.000	0.015	0.001	0.000	
44	Average BTU per KWh Net Generation			9961.000	0.000	0.000	10143.000	0.000	10.000	

								6 1 1 16 1		
Name of Respor	ndent		This Rep	oort Is:  An Original		Date of Report Mo, Da, Yr)		Period of Report		
Consumers Ene	ergy Company		(1)	A Resubmission	1 '	11	End o	of 2004/Q4		
		STEAM-ELEC	TRIC GENERA	TING PLANT ST	ATISTICS (Large	Plants)(Contin	nued)			
Dispatching, and 549 on designed for peasteam, hydro, in cycle operation viscotnote (a) accused for the vari	d Other Expense Line 25 "Electric ak load service. ternal combustic with a conventio ounting method tous components	e based on U. S. of the based on U. Of the based on U. S. of the b	of A. Accounts.  ther Power Supply  Maintenance Accounts  atically operated  equipment, repoclude the gas-tu  generated include  (c) any other in	Production experience ply Expenses. excount Nos. 553 diplants. 11. First each as a seprotine with the stating any excess formative data controlled.	nses do not included to 10. For IC and Goand 554 on Line Gor a plant equipper arate plant. However plant. 12. Costs attributed to	de Purchased F T plants, report 32, "Maintenanced with combina ever, if a gas-tu If a nuclear power oresearch and	Power, System C t Operating Expe ce of Electric Pla ations of fossil fu rbine unit function wer generating planted	nses, Account Nont." Indicate plant el steam, nuclear ens in a combined ant, briefly explait types of cost un	is I n by its	
report period and	d other physical	and operating cha		olant.		Diant			Line	
Plant			Plant Name: Kam 1	182		Plant Name: <i>Kam</i>	3 & 4		No.	
Name: Whiting	(d)		rame. ram.	(e)			(f)			
		Steam			Steam			Steam	1	
		Conventional			Conventional			Conventional	2	
		1952			1959			1975 1977	4	
		1953			1961 544.00	-		1402.30	5	
		317.80 336			519			1221	6	
		8786			8762			868	7	
		0,00			0			0	8	
		328			515			1276	9	
		328			515			1276	10	
		122			128			99	11	
		2457992000			3372548000	223510000 50886				
		474666			178947 22011449	34089600				
		20538134 105465224			285620269			241433743	14 15	
		105465224			0			0	16	
		126478024			307810665			275574229	17	
		397.9799			565.8284	196.5159				
		1627831			2889776	1536233				
		40089024			52721561	20680794				
		0			0			0	21	
		2466667			1885399			1159793 0	22	
		0			0			0	24	
		0 1154573			1394343			902971	25	
		945994			1512016			962189	26	
		943994			0			0	27	
		900449	I.		334673	-1		294443	28	
		1151703			1148706			415192	29	
		832298			932108			530730	30	
		2807449			6517422			1766699	31	
		864325			4158222			1106823 331300	32	
		83142			265371 73759597			29687167	34	
		52923455			0.0219			0.1328	35	
Cool	0.021			Oil	Gas	Gas	Oil	1	36	
Coal	Oil Barrels	+	Coal	Barrels	Mcf	Mcf	Barrels		37	
1395897	7449	0	1753273	22732	46028	647716	467642	0	38	
18533304	5880000	0	18994230	5796000	1025009	1041655	6319188	0	39	
27.138	53.508	0.000	26.952	50.098	7.984	12.185	29.827	0.000	40	
27.168	53.508	0.000	27.905	50.098	7.984	12.185	25.403	0.000	41	
1.466	9.100	0.000	1.469	8.643	7.789	11.698	4.020	0.000	42	
0.015	0.000	0.000	0.015	0.000	0.000	0.035	0.093	0.000	43	
10543.000	0.000	0.000	9928.000	0.000	0.000	0.000	16240.000	0.000	44	

Namo	of Respondent	Report Is:	ort Is: Date of Repo						
		(1)	X An Oi	riginal		(Mo, Da, Yr)		≣nd of 3	2004/Q4
Cons	umers Energy Company	(2)	A Res	submission		11			
	STEAM-ELECTRIC	GENER	RATING I	PLANT STATE	STICS (Lar	ge Plants) (Cont	tinued)		
1. Re	port data for plant in Service only. 2. Large pla	nts are	steam pla	ants with insta	lled capaci	ty (name plate rat	ting) of 25,00	00 Kw or mo	re. Report in
this na	age gas-turbine and internal combustion plants of	10,000	Kw or m	ore, and nucle	ar plants.	<ol><li>Indicate by a</li></ol>	ı footnote an	y plant lease	ed or operated
as a ir	oint facility 4. If net peak demand for 60 minute	es is no	t availabl	e, give data w	hich is avai	lable, specifying	period. 5.	It any emplo	yees attend
more i	than one plant report on line 11 the approximate	averag	e numbei	r of employees	assignable	e to each plant.	6. If gas is	used and pu	irchased on a
therm	hasis report the Btu content or the gas and the g	uantity	of fuel bu	ırned converte	d to Mct.	<ol><li>Quantities of </li></ol>	fuel burned (	Line 38) and	a average cost
per ur	it of fuel burned (Line 41) must be consistent with	n charg	es to exp	ense accounts	501 and 5	647 (Line 42) as s	now on Line	20. 8. If f	nore than one
fuel is	burned in a plant furnish only the composite hea	t rate fo	or all fuels	s burned.					
	IA			Plant			Plant		
Line	Item			Name: Wead	ock 7 & 8		Name: BC	Cobb 1-3	
No.	(a)			riamo.	(b)			(c)	
	(ω)								
	Kind of Plant (Internal Comb, Gas Turb, Nuclear					Steam			Steam
	Type of Constr (Conventional, Outdoor, Boiler, et	(C)				Conventional			Conventional
	······					1955			1948
	Year Originally Constructed					1958			1950
	Year Last Unit was Installed	IC NAVA				312.50			207.00
	Total Installed Cap (Max Gen Name Plate Rating	js-IVIVV)				312.30			0
	Net Peak Demand on Plant - MW (60 minutes)					8177		0	
	Plant Hours Connected to Load					0 0			0
8	Net Continuous Plant Capability (Megawatts)								183
9	When Not Limited by Condenser Water					310			183
10	When Limited by Condenser Water					302			18
11	Average Number of Employees					122			
12	Net Generation, Exclusive of Plant Use - KWh					1939518800			0
13	Cost of Plant: Land and Land Rights					144060			0
14	Structures and Improvements					22932473			62857
15	Equipment Costs					83811728			24895866
16	Asset Retirement Costs					0			0
17	Total Cost					106888261			24958723
18	Cost per KW of Installed Capacity (line 17/5) Inc	luding				342.0424			120.5735
	Production Expenses: Oper, Supv, & Engr					1637164			262947
	Fuel					28959599			452
21	Coolants and Water (Nuclear Plants Only)					0			(
	Steam Expenses					1560361			314014
	Steam From Other Sources					0			(
	Steam Transferred (Cr)	-				0			(
	Electric Expenses					1281447			145022
26						1173244			33769
	Rents					0			(
27 28	Allowances					815711			(
	Maintenance Supervision and Engineering					322940			106379
29	Maintenance Supervision and Engineering  Maintenance of Structures					694681	<b></b>		24438
30						4842208			78765
31	Maintenance of Boiler (or reactor) Plant					4261592			177476
32						320581			602
33			· · · · · · · · · · · · · · · · · · ·	<u> </u>		45869528			1149287
34	Total Production Expenses					0.0237			0.000
35				0	lo:		Coc	T	0.000
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)			Coal	Oil	Gas	Gas		
37		cate)		Tons	Barrels	Mcf	Mcf	10	
38				985227	5729	103473	671	0	0
39				19548647	5752969	1000000	1017696	0	0
40	Avg Cost of Fuel/unit, as Delvd f.o.b. during year	ar		26.690	51.164	8.827	6.850	0.000	0.000
41				26.661	51.164	8.827	6.850	0.000	0.000
42	Average Cost of Fuel Burned per Million BTU			1.364	8.894	8.827	6.731	0.000	0.000
43		)		0.014	0.000	0.000	0.000	0.000	0.000
44				10001.000	0.000	0.000	0.000	0.000	0.000
						-			
I	i			1			I		

	of Respondent			An Original	(	Date of Report Mo, Da, Yr)		ar/Period of Report	t
Consul	mers Energy Company			A Resubmission		/ /	Enc	201	
Dispato 547 and designe	s under Cost of Plant a hing, and Other Expens 1 549 on Line 25 "Electr d for peak load service hydro, internal combus	re based on U.S. oses Classified as Oric Expenses," and Designate autom	of A. Accounts. other Power Sup Maintenance A natically operate	oply Expenses. account Nos. 553 and plants. 11. Fo	nses do not include  10. For IC and G  and 554 on Line 3  or a plant equippe	de Purchased Port T plants, report 32, "Maintenance ded with combina	ower, System Operating Exp e of Electric P tions of fossil	penses, Account N lant." Indicate plar fuel steam, nuclea	nts ır
cycle op footnote used fo	peration with a convent e (a) accounting method r the various componer	ional steam unit, in d for cost of power nts of fuel cost; and	clude the gas-tu generated inclu (c) any other ir	urbine with the ste ding any excess of aformative data co	eam plant. 12. I	If a nuclear power research and d	er generating <sub> </sub> levelopment; (	plant, briefly expla (b) types of cost ur	in by nits
Plant	eriod and other physica  Campbell 3 (Total)	ar and operating cri	Plant Name: Camp			Plant Name:			Line No.
ivaille.	(d)		rtanio.	(e)			(f)		
		Ch. a.m.			Steam				1
		Steam Conventional			Conventional				2
		1980			1980				3
		1980			1980				4
		871.25			812.96			0.00	5 6
		850 8035			793 0			0	7
		0			0			0	8
		820			765			0	9
		0			0			0	10
		157 5327099000			0 4894882600			0	11
		1748580			1748580			0	13
		205947207			196631378			0	14
		453241728			423755698			0	15
		660937515			0 622135656			0	16 17
		758.6083			765.2722			0.0000	18
		0			2042620			0	
		0			69802283			0	
		0			0 1544746			0	<b>├</b>
		0			1544746			0	
		0			0			0	
		0			1270955			0	
		0			1350538			0	
		0			0 2252143			0	+
		0			725823			0	
		0			494581			0	
		0			4809211			0	
		0			608226 630711			0	
		0			85531837			0	+
		0.0000			0.0175			0.0000	35
			Coal	Oil					36
			Tons	Barrels	0	0	0	0	37
0	0	0	2349782 20484994	14320 5838000	0	0	0	0	39
0.000	0.000	0.000	30.673	46.624	0.000	0.000	0.000	0.000	40
0.000	0.000	0.000	29.343	46.624	0.000	0.000	0.000	0.000	41
0.000	0.000	0.000	1.432	7.986	0.000	0.000	0.000	0.000	42
0.000	0.000	0.000	0.014 9851.000	0.000	0.000	0.000	0.000	0.000	43
0.000	10.000	1 0.000	3551.000	1	1		· · · ·		
			•						

	of Respondent umers Energy Company	Report Is:	riginal submission		Date of Report (Mo, Da, Yr)	Year/Period of Report  End of			
	STEAM-ELECTRIC	(2)			STICS (I o	rge Plante) (Conf	inued)		
this pa as a jo more t therm per un	port data for plant in Service only. 2. Large planage gas-turbine and internal combustion plants of bint facility. 4. If net peak demand for 60 minute than one plant, report on line 11 the approximate basis report the Btu content or the gas and the cuit of fuel burned (Line 41) must be consistent with burned in a plant furnish only the composite hear	ints are f 10,000 es is no averaç juantity h charç	e steam pla 0 Kw or mot available ge number of fuel buges to exp	ants with insta ore, and nuck e, give data w of employees imed converte ense account	alled capace ear plants. Thich is avaces assignab	ity (name plate rat 3. Indicate by a illable, specifying plate to each plant. 7. Quantities of	ing) of 25,0 footnote a period. 5.6. If gas is fuel burned	If any emplo s used and pur I (Line 38) and	yees attend rchased on a average cost
1	Item			Plant			Plant		
Line   No.	item			Name: Wead	ock		Name: Th		
110.	(a)				(b)			(c)	
			.,					Coo	Turbine Peaker
	Kind of Plant (Internal Comb, Gas Turb, Nuclear				Ga	s Turbine Peaker		Gas	Conventional
	Type of Constr (Conventional, Outdoor, Boiler, e	tc)				Conventional			1970
	Year Originally Constructed					1968			1970
	Year Last Unit was Installed					1969			222.15
	Total Installed Cap (Max Gen Name Plate Rating	gs-MW	)			18.60 13			158
	Net Peak Demand on Plant - MW (60 minutes)					13			37
	Plant Hours Connected to Load					0			0
8	Net Continuous Plant Capability (Megawatts)					17			234
9	When Not Limited by Condenser Water					17			234
10	When Limited by Condenser Water					0			6
	Average Number of Employees					164800			863080
	Net Generation, Exclusive of Plant Use - KWh					0			126313
	Cost of Plant: Land and Land Rights					4512			432225
14	Structures and Improvements					1610073			27306258
15						0			(
16	Asset Retirement Costs					1614585			27864796
17		duding				86.8056			125.4323
	Cost per KW of Installed Capacity (line 17/5) Inc	Juding				3175			16724
	Production Expenses: Oper, Supv, & Engr					13090			220659
20						0			(
21						0			
22			<del>-</del>			0			
23						0			
25						1482			6779
26						375			1328
27				1		C			
28						C			342
29						2709	)		2339
30						C			
31	45 W 4 4 1 Dis-4					(			
32	4					2477			45796
33	And Of All draw Dlaws					(			
34						23308			80323
35						0.1414	<u> </u>		0.930
36						Gas			Gas
37		icate)				Mcf	<del> </del>		Mcf
38	Quantity (Units) of Fuel Burned			0	0	2113	0	0	32246
39	1010-4-16	uclear)		0	0	1012305	0	0	1000031
40				0.000	0.000	6.195	0.000	0.000	6.843
4	Average Cost of Fuel per Unit Burned			0.000	0.000	6.195	0.000	0.000	6.843
42				0.000	0.000	6.120	0.000	0.000	6.843
43	Average Cost of Fuel Burned per KWh Net Ge	n		0.000	0.000	0.079	0.000	0.000	0.256
44	Average BTU per KWh Net Generation			0.000	0.000	12979.000	0.000	0.000	37362.000
							1		

Consumers Energy Company   Care   C	Name of Da	nondort		This R	eport Is:	I	Da	ate of Report	Ye	ar/Period of Report	
STEAM-ELECTRIC GENERATING FLANT STATISTICS (large Plants)/Continued)   STEAM-ELECTRIC GENERATING FLANT STATISTICS (large Plants)/Continued)   STEAM-ELECTRIC GENERATING FLANT STATISTICS (large Plants)/Continued)   STEAM-ELECTRIC GENERATING FLANT STATISTICS (large Plants)   Continued   STEAM-ELECTRIC GENERAL STATISTICS (large Plants)   Continued				(1) (7	An Original	ì	(N	lo, Da, Yr)	l En	d of 2004/Q4	1
Internation Cost of Plant are based on U. S. of A. Accounts. Production expenses of not include Purchased Power, System Control and Load Jogachaching and Other Expenses Classified as Other Power Supply Expenses. 10. For I can off plants, report Operating Expenses, and Maintenance Account Nos. 553 and 554 on Line 32, "Maintenance of Electric Plant." Indicate plants response to the Common Co	Consumers E	nergy Company		(2)	A Resubmission	on	/	/	L''		
Internation Cost of Plant are based on U. S. of A. Accounts. Production expenses of not include Purchased Power, System Control and Load Jogachaching and Other Expenses Classified as Other Power Supply Expenses. 10. For I can off plants, report Operating Expenses, and Maintenance Account Nos. 553 and 554 on Line 32, "Maintenance of Electric Plant." Indicate plants response to the Common Co			STEAM-ELEC	TRIC GENER	ATING PLANT	STATISTICS (I	Large	Plants)(Contin	ued)		
	O literate un de	Cost of Plant a	na basadan II S o	f A Accounts	Production exp	enses do not i	includ	e Purchased P	ower, System	Control and Load	
Agrand 49 on Line 25 "Electric Expenses," and Maintenance Account Nos, sols and 594 on Line 25" interminations of foreit fixed is segreted for peak tool service. Designed automatically operated plants. 11. For a plant equippear, the protection of the protection		LOUIS Francis	and Classified on Of	har Dawar Su	innly Evnences	10 Fortica	na Gi	Diants, report	Operating LA	penaca, Account in	os.
Designation for peak lead service. Designate automatically operated plants. 11, 17, 17, 18, 18, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	- 4- 1-40 -	I ! OF UFIcati	ria Evnancac " and l	Maintenance	Account Nos 55.	3 and 554 on L	_ine o	z. Mannenanc	E OI LIECUICI	iant. marcate plan	
Items.n.yndro. Internal outside nor gas-furbine equipment, report each as a spartate paint. Provering in a gas-furbine equipment, report each as a spartate paint. Provering in a gas-furbine paint, briefly explain by young operation that conventional statem unit, include the gas-furbine with the steam plant. Z. If a nuclear grown generating paint, briefly explain by young on the paint of the value of the value of conventional convention and operating behavior and of the provision of the paint of the value			. Decianate automs	atically onerat	ed niants 11.	For a blant eu	uibbe	u willi combina	1110113 01 103311	i luci stearri, riadicai	
yoke operation with a conventional steam unit, include the gas-turbine with time steam plant. 12. If a nucee plant expension plant is conventional provided in the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used, fuel enrichment type and quantity for the various components of fuel cost, and (c) any other informative data concerning plant type beful used.  Plant Name: Morrow  Gas Turbine Peaker  Conventional  Conventi	A Decides	!	tion or age turbing c	auinment rer	nort each as a se	enarate biant.	nowe	ver, ii a gas-iui	Dille utilt fund		•
Second			ional ataom unit inc	-lude the rise-	turhine with the s	steam blant.	1Z. II	a nuclear bow	ei generaning	plant, bitchy capian	
seed for the various components of fuel costs, and (c) any other informative data concerning paint type fuel uses, fuel minimals with various components of plant informative data concerning paint type fuel uses, fuel minimals with various people prior and other physical and operating characteristics of plant.  Plant Name: Writing (d)    Plant Name: Morrow (e)   Plant Name: Gayford (f)   Plant Name: Morrow (e)   Plant Name: Gayford (f)   Plant Name: Morrow (e)   Plant Name: Gayford (f)   Plant Name: Gayford			d for each of power o	roporated incl	udina any eyces	s costs attribui	iea io	research and c	revelopinent,	(b) types or cost an	110
Pignt   Name: Whiting   Cas   Conventional   Conv	used for the v	arious componei	nts of fuel cost; and	(c) any other	informative data	concerning pla	ant typ	e fuel used, fu	iei enrichmen	t type and quantity i	or the
Plant Name: Marrier   Plant Name: Na	report period	and other physic	al and operating cha	aracteristics of	f plant.		— т				
Gas Turbine Peaker   Gas Tur	Plant						Ì		ard.		
Gas Turbine Peaker	Name: Whiti			Name: Mon			ļ	Name. Gayic			110.
Conventional   Con		(d)			(e)				(.)		
Conventional   Con					Co	o Turbino Pos	kor		G	as Turbine Peaker	1
1968		Ga			Ga				<u> </u>		
1968											
1860											4
14 29 69 69 69 69 69 69 69 69 69 69 69 69 69											5
11						30					6
11											7
17											
177											
17											
97000										6	
197000						173				6311000	12
142801   6579   207377   14	l					170				1252	13
1683657						6				207377	14
1726458										6992278	15
1726458   3423966   7200907   17   1726458   92.8203   95.1102   87.1781   18   1899   3351   129057   15   15   1050809   22   1050809										0	16
92.8203 95.1102 87.1781 18  92.8203 95.1102 129057 15  8739 23152 1050809 22  0 0 0 0 0 22  0 0 0 0 0 22  0 0 0 0						3423				7200907	17
1869										87.1781	18
8739 23152 1050809 20										129057	19
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										1050809	20
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										0	21
0 0 0 0 22  1228 12434 774290 22  221 1101 36362 22  0 0 0 0 0 0 22  0 0 0 0 0 0 22  12218 2747 108041 22  2218 2747 108041 22  2218 2747 108041 22  0 0 185 16588 33  0 0 0 0 0 0 0 0 3  390821 21045 262283 33  0 0 0 0 0 0 0 3  405096 64015 1677700 33  405096 64015 1677700 33  41762 0 3681 0 2658 33  0 0 0 1										0	22
0         0         0         22           1228         12434         74290         25           221         1101         36362         26           0         0         0         0         27           0         0         0         0         22           2218         2747         108041         25         30         <							0			0	23
1228							0			0	24
101   36362   26	<u> </u>					12	2434			74290	25
0         0         0         0         27           0         0         0         0         26           2218         2747         108041         29           0         185         16858         30           0         0         0         0         3           390821         21045         262283         3           0         0         0         0         0         3           405096         64015         1677700         3           4.1762         0.3681         0.2658         3           0         0         0.3681         0.2658         3           0         0         0.3681         0.2658         3           0         0         0.3681         0.2658         3           0         0         0.3681         0.2658         3           0         0         0.286         0         0         2834         0         0         109186         3           0         0         0         2834         0         0         1000000         3         3           0         0         0         2834         0						1	1101			36362	26
0         0         0         26           2218         2747         108041         25           0         185         16858         3           0         0         0         0         3           390821         21045         262283         3           0         0         0         0         3           405096         64015         1677700         3           4.1762         0.3681         0.2658         3           0         0         1         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>27</td>							0			0	27
2218     2747     108041     25       0     185     16858     30       0     0     0     3       390821     21045     262283     3       0     0     0     3       405096     64015     1677700     3       4.1762     0.3681     0.2658     3       Sarrels     Mcf     Mcf     3       0     0     286     0     0     2834     0     0     109186     3       0.000     0.000     30.576     0.000     0.000     8.169     0.000     0.000     9.373     4       0.000     0.000     5.239     0.000     0.000     7.654     0.000     0.000     9.373     4       0.000     0.000     0.000     0.000     0.133     0.000     0.000     0.166     4       0.000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>28</td>							0			0	28
0         185         16858         30           0         0         0         0         33           390821         21045         262283         33           0         0         0         33           405096         64015         1677700         34           4.1762         0.3681         0.2658         33           0         0         16858         34         0.2658         34           0         0         286         0         0         2834         0         0         109186         33           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         0.000         0.000         0.000         0.000         0.000         17300.000         4			<del></del>				2747			108041	29
0         0         3           390821         21045         262283         3           0         0         0         3           405096         64015         1677700         3           4.1762         0.3681         0.2658         3           Barrels         Mcf         Mcf         Mcf         3           0         0         286         0         0         2834         0         0         109186         3           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         0.133         0.000         0.000         9.373         4           0.000         0.000         0.000         0.000         0.000         0.133         0.000         0.000         17300.000         4							185			16858	30
390821         21043           405096         64015         1677700         34           4.1762         0.3681         0.2658         33           Barrels         Mcf         Mcf         Mcf         33           0         0         286         0         0         2834         0         0         109186         3           0         0         5838487         0         0         1067395         0         0         1000000         3373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         17300.000         4							0			0	
0         0         0         33           405096         64015         1677700         34           4.1762         0.3681         0.2658         33           Mcf         Mcf         Mcf         36           0         0         286         0         0         2834         0         0         109186         33           0         0         5838487         0         0         1067395         0         0         1000000         33           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         17300.000         4           0.000         0.000         0.000         0.133         0.000         0.000         17300.000         4			390821			2	1045			262283	
4.05096         5.010         0.2658         3.5           Value							0			0	33
4.1762         0.3681         0.2658         33           O         O         Description         Mcf         Mcf         Mcf         Mcf         Mcf         33           0         O         0         286         O         O         2834         O         O         109186         33           0         O         5838487         O         O         1067395         O         O         1000000         33           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         17300.000         4			405096			64	4015			1677700	
Oil         Gas         Gas         33           0         0         286         0         0         2834         0         0         109186         3           0         0         5838487         0         0         1067395         0         0         1000000         3           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000					· · · · · · · · · · · · · · · · · · ·	0.3	3681			0.2658	
Barrels         Mcf         Mcf         33           0         0         286         0         0         2834         0         0         109186         33           0         0         5838487         0         0         1067395         0         0         1000000         3           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000		T				Gas					36
0         0         286         0         0         2834         0         0         109186         3           0         0         5838487         0         0         1067395         0         0         1000000         3           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         <						Mcf					37
0         0         5838487         0         0         1067395         0         0         1000000         3           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         0.000         0.000         0.000         0.000         0.000         0.000         17300.000         4	0	0		0	0	2834		0	0		38
0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         0.000         0.000         0.000         0.000         0.000         0.000         17300,000         4				0	0	1067395		0	0		39
0.000         0.000         30.576         0.000         0.000         8.169         0.000         0.000         9.373         4           0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         0.000         0.000         0.000         0.000         0.000         0.000         17300.000         4				0.000	0.000	8.169		0.000	0.000		4(
0.000         0.000         5.239         0.000         0.000         7.654         0.000         0.000         9.373         4           0.000         0.000         0.000         0.000         0.133         0.000         0.000         0.166         4           0.000         0.000         0.000         0.000         0.000         0.000         17300.000         4				0.000	0.000	8.169		0.000	0.000		4
0.000 0.000 0.000 0.000 0.000 0.133 0.000 0.000 0.166 4				0.000	0.000	7.654		0.000	0.000		4:
17300.000   17300.000   17300.000   17300.000   17300.000   4				0.000	0.000	0.133					4:
			17195.000	0.000	0.000	17395.00	00	0.000	0.000	17300.000	4
	1										

					Date of Report		Year/Period o	of Report
lame	of Respondent	This Report Is (1) X An C	:: Original		(Mo, Da, Yr)		_	004/Q4
Consu	ımers Energy Company		submission		11		End of2	.004/Q4
	STEAM-ELECTRIC	`	DI ANT STAT	ISTICS (Lar	ne Plants) (Cont	inued)		
	STEAM-ELECTRIC	GENERATING	lanta with inst	alled conscit	y (name plate rat	ing) of 25 (	000 Kw or mor	e. Report in
. Rep	port data for plant in Service only. 2. Large pla	nts are steam p	nore and nuc	lear plants.	3. Indicate by a	footnote a	ny plant lease	d or operated
	to the stiller. A life not pook domand for 60 minute	se ie not availah	ile dive data i	wnich is avail	lable, specifying i	Jenou. J	. Il ally ellipio	yees alteria
is a jo	han one plant, report on line 11 the approximate	syerane numbe	er of employee	es assignable	to each plant.	6. If gas is	s used and pu	rchased on a
l	basis report the Dtu content or the gas and the g	uantity of fuel b	urned conven	ed to Mct.	7. Quantities of i	uei buinec	(Line 50) and	avciage occi
nem	it of fuel burned (Line 41) must be consistent with	n charges to exi	pense accoun	ts 501 and 5	47 (Line 42) as s	how on Lin	e 20. 8. If n	nore than one
inel is	burned in a plant furnish only the composite hea	t rate for all fuel	s burned.					
uo: 10	, , , , , , , , , , , , , , , , , , ,							
ine	Item		Plant			Plant	b - II	
No.			Name: Strain			Name: Ca		
	(a)		ļ	(b)			(c)	
			<u> </u>		T. Itisa Baalea		Gas	Turbine Peaker
	Kind of Plant (Internal Comb, Gas Turb, Nuclear			Gas	Turbine Peaker		Gas	Conventional
2	Type of Constr (Conventional, Outdoor, Boiler, e	tc)			Conventional			1968
3	Year Originally Constructed				1969			1968
	Year Last Unit was Installed				1969			
5	Total Installed Cap (Max Gen Name Plate Rating	js-MW)			21.25			18.60
6	Net Peak Demand on Plant - MW (60 minutes)				17			5
7	Plant Hours Connected to Load				73			1
8	Net Continuous Plant Capability (Megawatts)				0			0
9	When Not Limited by Condenser Water				21			0
10	When Limited by Condenser Water		_i		21			0
11	Average Number of Employees				0			0
	Net Generation, Exclusive of Plant Use - KWh				882700			4700
	Cost of Plant: Land and Land Rights				4694			0
14	Structures and Improvements				50816			14999
15	Equipment Costs				2027852			1670964
16	Asset Retirement Costs				0			0
17	Total Cost				2083362			1685963
	Cost per KW of Installed Capacity (line 17/5) Inc	luding			98.0406			90.6432
	Production Expenses: Oper, Supv, & Engr				17009			90
20					139035			389
21					0			<u>C</u>
	Steam Expenses				0			
	Steam From Other Sources				0			
24	1 (2)				0			
25					12339			5220
26					3904			11
27					0			(
28					0			(
29	<del>                                     </del>				13945			74
30					1587	'		87
31	15 11 1 1 1 1 1 1				C			
32					28493	8		33353
33	10.00 Ct				C			
34					216312	2		39224
35					0.2451			8.345
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)				Gas			Oil
37		cate)			Mcf			Barrels
38		· · · · · · · · · · · · · · · · · · ·	0	0	16587	0	0	12
39	101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ıclear)	0	0	1000000	0	0	5847059
			0.000	0.000	8.382	0.000	0.000	32.004
40			0.000	0.000	8.382	0.000	0.000	32.004
41	Average Cost of Fuel Burned per Million BTU		0.000	0.000	8.382	0.000	0.000	5.476
	Average Cost of Fuel Burned per Million BTO  Average Cost of Fuel Burned per KWh Net Ge	n	0.000	0.000	0.157	0.000	0.000	0.083
	Average BTU per KWh Net Generation		0.000	0.000	18791.000	0.000	0.000	15106.000
44	Average DTO per Kwitt Net Generation							
1						1		

Name of Respo			This F (1)	Report Is:   X  An Original		Date of Report (Mo, Da, Yr)		ear/Period of Report	
Consumers En	ergy Compan	-	(2)	A Resubmiss		11		nd of	
					STATISTICS (Larg				
Dispatching, an 547 and 549 on designed for pe steam, hydro, ir cycle operation footnote (a) accused for the var	d Other Expe Line 25 "Elec ak load service nternal combu with a conver- counting meth- rious componer	ctric Expenses," and ce. Designate autom stition or gas-turbine on the control of for cost of power of the cost of	ther Power S Maintenance atically opera equipment, re clude the gas generated inc (c) any other	upply Expenses. Account Nos. 55 ated plants. 11. eport each as a se-turbine with the cluding any exces r informative data	10. For IC and of the form of	GT plants, repo 32, "Maintenar bed with combinary vever, if a gas-f If a nuclear pot to research and	ort Operating Expressions of Electric nations of fossiburbine unit funower generating development;	in Control and Load xpenses, Account N Plant." Indicate plan il fuel steam, nuclea ctions in a combined g plant, briefly explai (b) types of cost un it type and quantity f	its r d in by nits
Plant	ia outor priyor	ca, and operating the	Plant	- F		Plant			Line
Name: Palisad			Name: Big			Name:	(f)		No.
	(d)			(e)			(1)		
		Nuclear			Nuclear				1
		Conventional			Conventional				2
		1970			1962				3
		1970			1962	<u> </u>		0.00	5
		811.75			75.00			0.00	6
		806 7166			0			0	7
		792			0			0	8
		803			0			0	9
		767			0			0	10
		536			104			0	11 12
		5335635000 2566108			0	-		0	13
		188060131			0			0	14
		645959791			0			0	15
		0			0			0	16
		836586030			0			0 0000	17
		1030.5957			0.0000	<u> </u>		0.0000	18 19
		13185146 19724960			0			0	20
		4676138			0	<u> </u>		0	21
		12428650			0			0	22
		0			0			0	23
		0			0			0	<del></del>
		5599915			0			0	<b>_</b>
		37912592 598360			0			0	<b>-</b>
		0			0			0	28
		10945443			0			0	
		855567			0			0	
		27894724			0			0	<del></del>
		7485874 3404625			0			0	-
		144711994			0			0	
		0.0271			0.0000			0.0000	35
Nuclear									36
KG of							1		37
750	0	0	0	0	0	0	0	0	38
58931098 1114.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	40
26300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41
0.335	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	42
0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	43
11023.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	44

Nama	of Respondent	This Report	ls:	T	Date of Report		Year/Period o	f Report
	of Respondent	(1) X An	Original		(Mo, Da, Yr)		End of 20	004/Q4
Consu	mers Energy Company	`	Resubmission					
	STEAM-ELECTRIC	GENERATIN	G PLANT STAT	TISTICS (La	rge Plants) (Cont	inued)		
this paras a jo more therm	port data for plant in Service only. 2. Large plage gas-turbine and internal combustion plants of int facility. 4. If net peak demand for 60 minutenan one plant, report on line 11 the approximate pasis report the Btu content or the gas and the cut of fuel burned (Line 41) must be consistent wit burned in a plant furnish only the composite hear	ints are steam f 10,000 Kw or es is not avail average num quantity of fuel h charges to e	plants with instruction more, and nucleon more, and nucleon more, and nucleon more, and the more more more more more more more mor	talled capacilear plants. which is availes assignabled to Mct	ity (name plate rat 3. Indicate by a illable, specifying plate to each plant.	ing) of 25,0 footnote ar period. 5. 6. If gas is fuel burned	If any employ used and pur (Line 38) and	rees attend chased on a average cost
	Harris .		Plant			Plant		
Line	Item		Name:			Name:		
No.	(a)			(b)			(c)	
1	Kind of Plant (Internal Comb, Gas Turb, Nuclear			,				
2	Type of Constr (Conventional, Outdoor, Boiler, e	etc)						
3	Year Originally Constructed							
	Year Last Unit was Installed				0.00			0.00
	Total Installed Cap (Max Gen Name Plate Ratin	gs-MW)			0.00			0.00
	Net Peak Demand on Plant - MW (60 minutes)				0			0
	Plant Hours Connected to Load				0			
8	Net Continuous Plant Capability (Megawatts)				0			C
9	When Not Limited by Condenser Water				0			0
10	When Limited by Condenser Water				0			
	Average Number of Employees		_		0			(
	Net Generation, Exclusive of Plant Use - KWh				0			(
_	Cost of Plant: Land and Land Rights				0			(
14	Structures and Improvements				0			(
15	Equipment Costs				0			(
16	Asset Retirement Costs				0			
17	Total Cost	cluding			0.0000			0.000
	Cost per KW of Installed Capacity (line 17/5) In	Cidding			C			
	Production Expenses: Oper, Supv, & Engr				C			
20	Fuel Coolants and Water (Nuclear Plants Only)				C			
21					C			
22	Steam Expenses Steam From Other Sources				(			
23	1.40.							
24					(			
25	The state of the s				(			
26	Rents				(			
28	Allowances							
29	Maintenance Supervision and Engineering					)		
30	Maintenance of Structures							
31	Maintenance of Boiler (or reactor) Plant							
32	1 1 1 1					엑		
33	And Ot (v. Niveleen) Dien	t				9		
34						9		0.000
35					0.000	<u> </u>		0.000
	Fuel: Kind (Coal, Gas, Oil, or Nuclear)							
37	tout up (M) along inc	dicate)				<del> </del>	<del>- </del> -	0
38	Quantity (Units) of Fuel Burned		0	0	0	0	0	0
	Avg Heat Cont - Fuel Burned (btu/indicate if n		0	0	0	0	0.000	0.000
	Avg Cost of Fuel/unit, as Delvd f.o.b. during y		0.000	0.000	0.000	0.000	0.000	0.000
41			0.000	0.000	0.000	0.000	0.000	0.000
42	Average Cost of Fuel Burned per Million BTU		0.000	0.000	0.000	0.000	0.000	0.000
43		en	0.000	0.000	0.000	0.000	0.000	0.000
44	Average BTU per KWh Net Generation		0.000	0.000	0.000	0.000	10.000	10.000

Name of Resp	ondent		This Re	eport Is: An Original			ate of Report lo, Da, Yr)	1	eriod of Report	
Consumers E	nergy Company		(1) [2]	An Onginal	on	•	1	End of	2004/Q4	
		STEAM-FLECT	RIC GENER	ATING PLANT S	STATISTICS (La	arge l	Plants)(Continued)			
Dispatching, a 547 and 549 or designed for p steam, hydro, cycle operation footnote (a) ac used for the vi	nd Other Expension Line 25 "Electriceak load service internal combusion with a conventicuounting methocarious componer	re based on U. S. of ses Classified as Ottric Expenses," and No. Designate automation or gas-turbine eional steam unit, incid for cost of power gotts of fuel cost; and all and operating cha	A. Accounts. her Power Su faintenance A tically operat quipment, rep lude the gas- enerated incl (c) any other	Production exp pply Expenses. Account Nos. 553 ed plants. 11. Fort each as a se turbine with the s uding any excess informative data	enses do not in 10. For IC an 3 and 554 on Li For a plant equ parate plant. Hateam plant. Hateam plant. In	nclude ne 32 nipped lowev	e Purchased Power plants, report Ope 2, "Maintenance of d with combinations ver, if a gas-turbine a nuclear power ge research and devel	Electric Plant of fossil fuel unit functions enerating plan opment; (b) ty	" Indicate plant steam, nuclear s in a combined tt, briefly explair ypes of cost uni	n by
Plant	and other physica		Plant	, picture .			Plant			Line
Name:			Name:			-	Name:	<b>(6</b> )		No.
	(d)			(e)				(f)		
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						T				2
										3
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		0				0			0	9
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		0				0			0	13
		0				0			0	14
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		0.0000			0.00				0.0000	18
		0.0000				0			0	19
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0.000	0.000	0.000	0.000	0.000	0.000			.000	0.000	40
0.000	0.000	0.000	0.000	0.000	0.000			.000	0.000	41
0.000	0.000	0.000	0.000	0.000	0.000			.000	0.000	43
0.000	0.000	0.000	0.000	0.000	0.000			.000	0.000	44
0.000	0.000	0.000	0.000	3.000						
							1			

Name of Respondent	This Report is: (1) X An Original	Date of Report (Mo, Da, Yr)	Year/Period of Report				
Consumers Energy Company	(2) _ A Resubmission	11	2004/Q4				
FOOTNOTE DATA							

Schedule Page: 402 Line No.: 20 Column: b

JHC 1&2

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$4,135,501.

Schedule Page: 402 Line No.: 20 Column: c

BCCobb 4&5

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$903,297.

Schedule Page: 402 Line No.: 20 Column: d

JRWhiting 1-3

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$1,787,225.

Schedule Page: 402 Line No.: 20 Column: e

Karn 1&2 -

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$2,294,535.

Schedule Page: 402 Line No.: 20 Column: f

Karn 3&4 -

Includes ash, fuel handling and other non-fuel clause expenses in the amount of \$906,412.

Schedule Page: 402 Line No.: 28 Column: b

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: c

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: d

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: e

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402 Line No.: 28 Column: f

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.1 Line No.: -1 Column: d

J H Campbell Unit 3 is jointly owned by Consumers Energy Company, Michigan Public Power Agency and Wolverine Power Supply Cooperative, Inc. Consumers Energy Company is the operator of Campbell 3. Information in Column (d), lines 1 through 18 is for the entire plant. Information in Column (e), lines 5 through 12 reflect Consumers Energy Company's 93.31% undivided interest in the plant. Lines 13 through 35 reflect the costs and expenses of the plant as shown on Consumers Energy Company's books. Plant investment reflects the amount in service at December 31, 2004.

Schedule Page: 402.1 Line No.: 20 Column: b

Schedule Page: 402.1 Line No.: 20 Column: b

JCWeadock -

Includes ash, fuel handling and other non-fuel cluase expenses in the amount of \$1,487,739.

Schedule Page: 402.1 Line No.: 20 Column: e

JHCampbell 3 (Consumers Share)-

Includes ash, fuel handling, and other non-fuel clause expenses in the amount of \$192,981.

Schedule Page: 402.1 Line No.: 28 Column: e

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.2 Line No.: 28 Column: c

Line 28 - Expenses from Account 509.100 only.

Schedule Page: 402.3 Line No.: -1 Column: d

RESPONSE TO INSTRUCTION 12

A. The Company owned two nuclear power generating plants. The Palisades Plant's operating and costs of generating power were charged to the applicable operation and

FERC FORM NO. 1 (ED. 12-87) Page 450.1

Name of Respondent	This Report is: (1) X An Original (2) A Resubmission	Date of Report (Mo, Da, Yr)	Year/Period of Report	
Consumers Energy Company	FOOTNOTE DATA	, ,	200 // 41	

maintenance accounts as prescribed by the Federal Energy Regulatory Commission. The Big Rock Point Plant was retired August 97 and is being decommissioned.

- B. The Company is charging Fuel Expense for the costs of fabrication, material and lease\* costs on the basis of recognizing the total amount of such costs over the estimated useful life of the fuel. Each accounting period's charges are based on the estimated useful life expired during that period as expressed in megawatt days per metric ton. Fabrication and material are assigned equally to each fuel assembly in each batch of like fuel elements. Perpetual storage was charges to Fuel Expense in the same manner as fabrication and material until April 7, 1983. Since then, perpetual storage is charged to Fuel Expense based on the Department of Energy's contracted rate of one mill/kWh of net generation. This is a result of the Nuclear Waste Policy Act of 1982. Unburned fuel in the Big Rock Point Plant reactor at the time of plant shutdown was charged to fuel expense in 1997.
- \* Note: Starting in November 2001 Fuel is purchased and capitalized on the basis of useful life.
- C. The Palisades Plant has a pressurized water reactor and uses uranium dioxide for fuel.

The Company has a full-term, 40-year operating license for the Palisades Nuclear Plant. Palisades license expires in the year 2011.

D. The National Energy Policy Act of 1992 established an additional nuclear fuel expense for decontamination and decommissioning of Department of Energy enrichment facilities. The expense is recovered at the rate of 1/12 the annual fee per month.

	of Respondent umers Energy Company	This Report Is (1) X An C (2) A Re	i: Driginal Submission	Date of Report (Mo, Da, Yr)	Year/Period of Report  End of2004/Q4
	HYDROEL	ECTRIC GENEI	RATING PLANT STATIS	STICS (Large Plant	ds)
2. If a a footr 3. If n	ge plants are hydro plants of 10,000 Kw or more ny plant is leased, operated under a license from note. If licensed project, give project number. et peak demand for 60 minutes is not available, group of employees attends more than one general process.	of installed capa the Federal End	acity (name plate ratings ergy Regulatory Commis s available specifying pe	s) ssion, or operated a	as a joint facility, indicate such facts in
Line	Item		FERC Licensed Project	t No. 2452	FERC Licensed Project No. 2599
No.			Plant Name: HARDY		Plant Name: HODENPYL
	(a)		(b)		(c)
				Characa	Run-of-Rive
	Kind of Plant (Run-of-River or Storage)			Storage Conventional	Conventiona
	Plant Construction type (Conventional or Outdoo	or)		1931	1925
	Year Originally Constructed			1931	1925
	Year Last Unit was Installed	A/\		30.00	15.10
	Total installed cap (Gen name plate Rating in M			33	10.10
	Net Peak Demand on Plant-Megawatts (60 minu Plant Hours Connect to Load	ites)		6.229	8,784
	Net Plant Capability (in megawatts)			0,220	A CONTRACTOR OF THE PARTY OF TH
9	(a) Under Most Favorable Oper Conditions			32	18
10	(b) Under the Most Adverse Oper Conditions			4	2
	Average Number of Employees			0	
	Net Generation, Exclusive of Plant Use - Kwh			113,154,000	34,207,700
	Cost of Plant				
14				332,260	40,72
15	Structures and Improvements			908,598	559,817
16	Reservoirs, Dams, and Waterways			5,443,091	3,459,452
17	Equipment Costs			2,089,013	1,972,599
18	Roads, Railroads, and Bridges			0	(
19	Asset Retirement Costs			0	(
20	TOTAL cost (Total of 14 thru 19)			8,772,962	
21	Cost per KW of Installed Capacity (line 20 / 5)			292.4321	399.5092
22	Production Expenses				
23				52,640	
24	The state of the s			64,991	
25				121,789	
26				91,545	
27	Misc Hydraulic Power Generation Expenses			49,171 0	
28				21,235	
29				22,061	
30				111,463	
31		rays		125,497	
32				7,534	
33				667,926	The state of the s
34				0.0059	

Name of Respondent	This Report Is:	Date of Report	Year/Period of Report	١
Consumers Energy Company	(1) X An Original (2) A Resubmission	(Mo, Da, Yr) End of		
	` '		<u> </u>	
	CTRIC GENERATING PLANT STATISTICS			
5. The items under Cost of Plant represent accour	nts or combinations of accounts prescribed b	y the Uniform System of A	Accounts. Production Expe	enses
do not include Purchased Power, System control a	nd Load Dispatching, and Other Expenses of	lassified as "Other Power	Supply Expenses."	
6. Report as a separate plant any plant equipped v	with combinations of steam, hydro, internal c	ombustion engine, or gas	turbine equipment.	
FERC Licensed Project No. 2580	FERC Licensed Project No. 0	FERC Licensed Proje	ect No. 0	Line
Plant Name: TIPPY	Plant Name:	Plant Name:		No.
(d)	(e)		(f)	
				<u> </u>
Run-of-River				1
Conventional				2
1918				3
1918				4
20.10	0	.00	0.00	
16		0	0	
8,784		0	0	7
				8
21		0	0	9
5		0	0	10
7		0	0	11
60,900,000		0	0	12
				13
4,380		0	0	14
677,119		0	0	15
4,930,360		0	0	16
2,018,455		0	0	17
13,383		0	0	18
0		0	0	19
7,643,697		0	0	20
380.2834	0.00		0.0000	21
380.2034	anger en			22
28,331		ol	C	23
38,056		0	C	24
227,552		0	0	
93,867		0	0	+
		0	(	
52,660		0		-
15,387		0	(	+
		0		
8,660 49,227		0		
the state of the s		0		
9,545		0		
14,453		0		+
537,738	0.00		0.0000	
0.0088	0.0	500	0.0000	1
į į				1

	of Respondent umers Energy Company	This Report Is: (1) X An Ori (2) A Res	ginal ubmission	Date of Report (Mo, Da, Yr)	Year/Period of Repor	t
	•••	` ´ LJ			3)	
2. If a a footr	ge plants are hydro plants of 10,000 Kw or more ny plant is leased, operated under a license from note. If licensed project, give project number. et peak demand for 60 minutes is not available, g group of employees attends more than one gene	of installed capac the Federal Ener	gy Regulatory Commi available specifying po	s) ssion, or operated a	s a joint facility, indicate such fac	
Line	Item	F	ERC Licensed Project	t No. 0	FERC Licensed Project No. (	,
No.	itom	ŀ	Plant Name:	I	Plant Name:	
	(a)		(b)		(c)	
	Kind of Plant (Run-of-River or Storage)	<del></del>				
	Plant Construction type (Conventional or Outdoo	r)				
	Year Originally Constructed					
	Year Last Unit was Installed	A()		0.00		0.00
	Total installed cap (Gen name plate Rating in M\			0.00		0
	Net Peak Demand on Plant-Megawatts (60 minu Plant Hours Connect to Load	ies)		0		0
	Net Plant Capability (in megawatts)			-		
9				0		0
10	, , , , , , , , , , , , , , , , , , , ,			0		0
	Average Number of Employees			0		0
	Net Generation, Exclusive of Plant Use - Kwh			0		0
	Cost of Plant				2000年1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日	
14	Land and Land Rights			0		0
15				0		0
16	Reservoirs, Dams, and Waterways			0		0
17	Equipment Costs			0		0
18	Roads, Railroads, and Bridges			0		0
19	Asset Retirement Costs			0		0
20				0		0
21				0.0000		0.0000
22	Production Expenses			•		0
23				0		0
24				0		0
25				0		0
	Electric Expenses			0		0
27				0		0
28				0		0
29				0		0
30		love		0		0
31	<u> </u>	rays		0		0
32				0		0
33				0		0
35				0.0000		0.0000

Name of Respondent	This Report Is: (1) [X] An Original	Date of Report (Mo, Da, Yr)	Year/Period of Repo	l
Consumers Energy Company	(1) An Original (2) A Resubmission	/ /	End of2004/Q4	
HYDROELEC	CTRIC GENERATING PLANT STATISTICS	L 3 (Large Plants) (Continue	d)	
5. The items under Cost of Plant represent account				enses
<ol> <li>The items under Cost of Plant represent accounts</li> <li>not include Purchased Power, System control at Report as a separate plant any plant equipped with the properties of the plant and plant equipped with the plant end of the plant end end of the plant end end end end end end end end end end</li></ol>	nd Load Dispatching, and Other Expenses.	classified as "Other Powe	er Supply Expenses.	
	FERC Licensed Project No. 0	FERC Licensed Pro	ject No. 0	Line
FERC Licensed Project No. 0 Plant Name:	Plant Name:	Plant Name:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	No.
(d)	(e)		(f)	<del> </del>
				<del></del>
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0		0		0 33
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	`			

	of Respondent umers Energy Company	This (1) (2)	Report Is: X An Or A Res	iginal submission	Date of Report (Mo, Da, Yr)	l	Year/Period of Report  End of
	HYDROEL	ECTRI	C GENER	ATING PLANT S	TATISTICS (Large Plan	its)	
2. If and a footn	ge plants are hydro plants of 10,000 Kw or more my plant is leased, operated under a license from ote. If licensed project, give project number. et peak demand for 60 minutes is not available, group of employees attends more than one general	of insta the Fe	alled capadederal Ene	city (name plate r rgy Regulatory Co available specify	atings) pmmission, or operated ing period.	as a jo	
Lina	Item			FERC Licensed F	Project No. 0	FERC	Licensed Project No. 0
Line   No.	item			Plant Name:	,		Name:
	(a)				(b)	ļ	(c)
						<u> </u>	
	Kind of Plant (Run-of-River or Storage)					<del> </del>	
	Plant Construction type (Conventional or Outdoo	r)					
_	Year Originally Constructed					1	
	Year Last Unit was Installed	40			0.00	1	0.00
	Total installed cap (Gen name plate Rating in M\				0.00		0.00
	Net Peak Demand on Plant-Megawatts (60 minu	tes)					0
	Plant Hours Connect to Load					1	en summing grant dans in the stage of the
	Net Plant Capability (in megawatts)				(		0
9	(a) Under Most Favorable Oper Conditions (b) Under the Most Adverse Oper Conditions						0
10	Average Number of Employees						0
	Net Generation, Exclusive of Plant Use - Kwh				(		0
-	Cost of Plant						
14	Land and Land Rights				(	)	0
15	Structures and Improvements					0	0
16	Reservoirs, Dams, and Waterways					0	0
17	Equipment Costs					0	0
18						0	0
19	Asset Retirement Costs					0	0
20	TOTAL cost (Total of 14 thru 19)					0	0
21	Cost per KW of Installed Capacity (line 20 / 5)				0.000	0	0.0000
22	Production Expenses						
23	Operation Supervision and Engineering					0	0
24	Water for Power					0	0
25	Hydraulic Expenses					0	0
26	Electric Expenses					0	0
27	Misc Hydraulic Power Generation Expenses					0	0
28	Rents					0	0
29						0	0
30						0	0
31	Maintenance of Reservoirs, Dams, and Waterw	ays				0	0
32						0	0
33						0	0
34					0.000		0.0000
35	Expenses per net KWh						

Name of Respondent	This Report Is:	Date of Report (Mo, Da, Yr)	Year/Period of Report	
Consumers Energy Company	(1) X An Original (2) A Resubmission	(Mo, Da, Yr) / /	End of2004/Q4	
	ECTRIC GENERATING PLANT STATISTICS		1)	
<ol> <li>The items under Cost of Plant represent account do not include Purchased Power, System control in Report as a separate plant any plant equipped</li> </ol>	and Load Dispatching, and Other Expenses	classified as "Other Power	Supply Expenses.	inses
FERC Licensed Project No. 0	FERC Licensed Project No. 0	FERC Licensed Proj	ect No. 0	Line No.
Plant Name:	Plant Name: (e)	Plant Name:	(f)	INO.
(d)	(6)			
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				2
				3
				4
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0.0000	, ·		5.000	

	of Respondent	This (1)	Report	ls: Original	Date of Report (Mo, Da, Yr)	Year/Period of Report
Consu	ımers Energy Company	(2)	HAF	Resubmission	11	End of
	PUMPED S	TORAC	SE GEN	NERATING PLANT STA	TISTICS (Large Plants)	
2. If a a footr 3. If n 4. If a	ge plants and pumped storage plants of 10,000 ny plant is leased, operating under a license from the control of the project number. The peak demand for 60 minutes is not available, group of employees attends more than one genue items under Cost of Plant represent accounts of the plant	Kw or not the Foreign the give the details and the foreign the details are not the foreign	nore of ederal l e which plant, i	installed capacity (name Energy Regulatory Comi is available, specifying report on line 8 the appro	plate ratings) mission, or operated as a j period. eximate average number o	f employees assignable to each
5. The	e items under Cost of Plant represent accounts t : include Purchased Power System Control and I	Load Di	spatchi	ing, and Other Expenses	classified as "Other Powe	er Supply Expenses."
uo 1101	moduce ruichaseu i owei Gystein Control and i		>F =	<u> </u>		
Line	Item				FERC Licensed P	roject No. 2680
No.					Plant Name:	LUDINGTON (Total)
	(a)					(b)
						Otions
1	Type of Plant Construction (Conventional or Out	tdoor)				Conventiona
2	Year Originally Constructed					1973
3	Year Last Unit was Installed					1973
4	Total installed cap (Gen name plate Rating in M	W)				1,978
5	Net Peak Demaind on Plant-Megawatts (60 min	utes)				1,758
6	Plant Hours Connect to Load While Generating					4,174
7	Net Plant Capability (in megawatts)					1,873
8	Average Number of Employees					
9	Generation, Exclusive of Plant Use - Kwh					2,764,264,000
10	Energy Used for Pumping					3,877,248,000
11	Net Output for Load (line 9 - line 10) - Kwh					-1,112,984,000
12	Cost of Plant					4 072 55
13	Land and Land Rights					4,872,55
14	Structures and Improvements					35,347,68
15	Reservoirs, Dams, and Waterways					213,782,54
16	Water Wheels, Turbines, and Generators					84,986,17
17	Accessory Electric Equipment					16,426,02
18	Miscellaneous Powerplant Equipment					3,723,64
19	Roads, Railroads, and Bridges					3,398,33
20	Asset Retirement Costs					202 520 06
21	Total cost (total 13 thru 20)					362,536,96
22	Cost per KW of installed cap (line 21 / 4)					183.210
23	Production Expenses					
24	Operation Supervision and Engineering					
25	Water for Power					
26	Pumped Storage Expenses					
27						
28	Misc Pumped Storage Power generation Expe	enses				
29						
30	Maintenance Supervision and Engineering					
31						
32	Maintenance of Reservoirs, Dams, and Water	ways				
33	Maintenance of Electric Plant					
34						
35	Production Exp Before Pumping Exp (24 thru	34)				
36						
37	Total Production Exp (total 35 and 36)					
38	B Expenses per KWh (line 37 / 9)					

Name of Respondent	This Report Is:	Date of Report	Year/Period of Report
Consumers Energy Company	(1) X An Original (2) A Resubmission	(Mo, Da, Yr) / /	End of2004/Q4
PLIMPED ST	ORAGE GENERATING PLANT STATISTIC	 S (Large Plants) (Continue	ed)
6. Pumping energy (Line 10) is that energy meas			
7. Include on Line 36 the cost of energy used in pand 38 blank and describe at the bottom of the so station or other source that individually provides reported herein for each source described. Group energy. If contracts are made with others to purc	oumping into the storage reservoir. When this shedule the company's principal sources of pour nore than 10 percent of the total energy used to together stations and other resources which	is item cannot be accurately umping power, the estimate If for pumping, and production Individually provide less the	ed amounts of energy from each on expenses per net MWH as han 10 percent of total pumping
FFDC Licensed Brainet No. 2000	FFDC Licensed Project No.	0 FERC Licensed Proje	ect No 0 Line
FERC Licensed Project No. 2680 Plant Name: LUDINGTON (CPCo %)	· · · · · · · · · · · · · · · · · · ·	Plant Name:	No.
(c)	(d)	l'iant ramo.	(e)
(-)			
Conventional			1
1973			2
1973			3
1,009			4
897			5
			6
955			7
			8
1,333,581,000			9
1,872,029,000			10
-538,448,000			11
			12
2,439,473			13
16,900,856			15
97,934,560			16
41,573,705			17
2,888,087			18
1,862,630			19
1,535,548			20
405 404 050			2'
165,134,859			22
163.6295			23
514,375			24
825,259			25
147,513			26
525,813			27
450,060			28
84			29
204,907			30
58,414			3.
498,471			32
1,143,901			33
763,043			34
5,131,840			35
29,028,797			36
34,160,637			33
0.0256			38
0.0200	1		

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Name of Respondent	This Report is:	Date of Report	Year/Period of Report				
	(1) X An Original	(Mo, Da, Yr)					
Consumers Energy Company	(2) A Resubmission	11	2004/Q4				
FOOTNOTE DATA							

Schedule Page: 408 Line No.: -1 Column: b

\*The Ludington Project is jointly owned by joint licensees Consumers Energy Company and The Detroit Edison Company. Consumers Energy Company is the operator of the project. Information in column (b), Lines 1 through 22, is for entire Plant. Information in Column (c), Lines 4 through 11, reflects Consumers Energy Company's 51% undivided interest in the Plant. Lines 13 through 38 reflect the costs and expenses of the Plant as shown on Consumers Energy Company's books. Plant investment reflects the amount in service at December 31, 2004.

	of Respondent umers Energy Company	This Report	Original	Date of Re (Mo, Da, Y	port Year	ar/Period of Report
Consi			Resubmission PLANT STATISTIC			
					ante conventional h	dro plants and numbed
storag the Fe	nall generating plants are steam plants of, less that plants of less than 10,000 Kw installed capacity aderal Energy Regulatory Commission, or operate roject number in footnote.	v (name plate	rating). 2. Desig	nate any plant lease ncise statement of th	d from otners, opera	ted under a license from [
Line No.	Name of Plant	Const.	Installed Capacity Name Plate Rating (In MW)	Net Peak Demand MW (60, min.) (d)	Net Generation Excluding Plant Use (e)	Cost of Plant (f)
	(a)	(b)	(c)	(u)	(0)	(7
	Hydraulic:	1918	9.00	9.6	30,161,500	4,344,008
	Foote - FPC #2436 Cooke - FPC #2450	1911	9.00	7.0	25,952,000	3,198,231
	Five Channels - FPC #2453	1912	6.00	5.9	23,340,400	3,781,679
		1913		4.8	17,391,512	3,248,688
	Loud - FPC #2449 Alcona - FPC #2447	1924		7.8	26,469,300	3,756,694
	Mio - FPC #2448	1916		4.2	14,105,000	3,387,560
	Croton - FPC #2448	1907	8.85	8.1	42,938,200	8,727,882
8		1906		7.7	30,357,600	5,135,399
	Rogers - FPC #2451 Webber - FPC #2566	1907		3.2	13,051,400	6,940,029
	Calkins Bridge (Allegan) - FPC #785	1938		2.3	13,047,000	1,985,094
11	Caikins Bridge (Allegari) - FFC #763	1000				
12						
13						
14 15						
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Name of Respondent		This Report Is:	. ,	ate of Report	Year/Period of Report	
Consumers Energy Com	ipany	(1) X An Origin (2) A Resubn	1	Mo, Da, Yr) / /	End of2004/Q4	<del>1</del> -
	GEN	ERATING PLANT STAT	FISTICS (Small Plants)	(Continued)	4	
Page 403. 4. If net pe	ely under subheadings for s ak demand for 60 minutes i hydro internal combustion of am turbine regenerative fee	s not available, give the r gas turbine equipment	e which is available, spe t. report each as a sepa	citying period. 5. i rate plant. However,	if the exhaust heat from the	uı
Plant Cost (Incl Asset	Operation	Production	Expenses	10.1.65.1	Fuel Costs (in cents	Line
Retire. Costs) Per MW	Exc'l. Fuel	Fuel	Maintenance	Kind of Fuel (k)	(per Million Btu) (I)	No.
(g)	(h)	(i)	(j)	(1)	(1)	1
482,667	174,439		167,39	99		2
355,359	290,015		188,20			3
630,280	433,309		658,2			4
812,172	203,637		73,0	36		5
469,587	213,116		57,1	36		6
682,976	239,154		48,6	69		7
986,201	408,870		191,8	42		8
759,674	126,989		114,7	93		9
1,613,960	147,010		160,5	20		10
778,468	145,189		57,3	10		11
						12
						13
						14
						16
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						46

### STEAM-ELECTRIC GENERATING PLANTS

- 1. Include on this page steam-electric plants of 25,000 Kw (name plate rating) or more of installed capacity.
- 2. Report the information called for concerning generating plants and equipment at year end. Show unit type installation, boiler, and turbine-generator on same line.
- 3. Exclude plant, the book cost of which is included in Account 121, Nonutility Property.
- 4. Designate any generating plant or portion thereof for which the respondent is not the sole owner. If such property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant or portion thereof for which the respondent is not the sole
- owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining thearrangement and giving details as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

  5. Designate any generating plant or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent, and how determined. Specify whether lessee is an associated company.
- 6. Designate any plant or equipment owned, not

			(Include	BOIL both ratings for the bo	.ERS oiler				
and the turbine-generator									
			of dual-rated installations)						
Line	Name of Plant	Location	Number	Kind of Fuel	Rated	Steam	Rated		
No.		of Plant	and Year	and Method	Pressure	Temperature	Maximum		
			Installed	of Firing	(In psig)	(Indicate	Continuous		
						reheat	M lbs		
						boilers as 1050/1000)	Steam per Hour		
				(4)	(0)	(f)	(g)		
	(a)	(b)	(c)	(d)	(e)	(1)	(9)		
1	Palisades (Nuclear)	Covert Township	1 - 1972	Nuclear	2,085*	514**	11,200**		
3	J H Campbell	West Olive	1 - 1962	Coal-Pulverized	2,700	1050/1000	1,925		
5			1 - 1967	Coal-Pulverized	3,800	1000/1000	2,550		
6			1 - 1980 (1)	Coal-Pulverized	2,900	1005/1005	6,000		
7	ł		, ,,,						
8	B C Cobb	Muskegon	1 - 1949 (2)	Gas	950	900	600		
9	5 0 0000		1 - 1949 (2)	Gas	950	900	600		
10			1 - 1949 (2)	Gas	950	900	600		
11	1	ļ '	1 - 1956	Coal-Pulverized	2,300		1,050		
12			1 - 1957	Coal-Pulverized	2,300	1050/1000	1,050		
13 14	D E Karn	Essexville	1 - 1959	Coal-Pulverized	2,725	1050/1050	1,750		
15 16			1 - 1961	Coal-Pulverized	2,700	1050/1000	1,750		
17 18 19			1 - 1975	Crude & Residual Oi & Natural Gas	2,250	955/955	4,625		
20 21			1 - 1977	Crude, Residual & Natural Gas	2,250	955/955	4,625		
22		Faccondillo	   1 - 1955	Coal-Pulverized	2,300	1050/1000	1,050		
23		Essexville	1 - 1958	Coal-Pulverized	2,300		1,050		
24 25			1000						
26		Near Erie	1 - 1952	Coal-Pulverized	1,650		690		
27			1 - 1952	Coal-Pulverized	1,650		690		
28			1 - 1953	Coal-Pulverized	1,650	1000/1000	850		
30	See Note (1) and (2) on Pag	e 413C							
۳	* Primary system pressure	** Steam o	enerator output						

# STEAM-ELECTRIC GENERATING PLANTS (Continued)

operated, and not leased to another company. If such a plant or equipment was not operated within the past year, explain whether it has been retired in the books of accounts or what disposition of the plant or equpment

and its book cost are contemplated. 7. Report gas-turbines operated in a combined cycle with a conventional steam unit with its associated steam unit.

### **TURBINE-GENERATORS**

(Report cross-compound turbine-generator units on two lines - H.P. section and I.P. section. Designate units with shaft connected boiler feed pumps. Give capacity rating of pumps pumps in terms of full load requirements)

T		TURBINES	3			GENERATORS						
	(Include	both ratings fo		Ì								
		the turbine-ge			Nameplate	e Rating in						
		ated installation			Megaw	atts		- 1				
V	Max.	Type	Steam	RPM	At	At	Hydro	gen	Power	Voltage	Plant	Line
Year			Pressure	'`` '''	Minimum	Maximum	Press	- 1	Factor	(in KV)	Capacity,	No.
Installed	Rating	(Indicate				Hydrogen	(Desig			(If other	Maximum	í
	Mega-	tandem-	_ at		Hydrogen	, ,	air co			than	Generator	ı
	watt	compound	Throttle		Pressure	Pressure			i	3 phase,	Nameplate	1
	:	(TC); cross-	psig.			(Include	genera	iors)	i	•	Rating	1
		compound				both		i	Ì	60 cycle,		1
		(CC); single			İ	ratings		ŀ	ł	indicate	(Should	ĺ
		casing (SC);				for the		- 1	İ	other	agree	i
		topping unit				boiler		l	i	charac-	with	i
	ľ	(T); and	,			and the		1	i	teristic)	Column	
	Į.	• • •	ļ			turbine-		1			(n))	l
		noncondens-				generator of		ļ.				İ
	1	ing (NC)				dual-rated						ĺ
		Show back					Min.	Max.				1
		pressures)	l i			installations)			(a)	(r)	(s)	1
(h)	(i)	(i)	(k)	(l)	(m)	(n)	(0)	(p)	(q)	()	(8)	$\vdash$
4070	811.7	тс	720	1800	_	811.7	0.5	75.0	0.85	22.0	811.7	
1972	811.7		120	1000		011						2
4000	265	СС	2400	3600	97.4 +	132.5	25.0	45.0	0.85	16.0		3
1962	265		2400	3000	97.4 +	132.5	25.0	45.0	0.85	16.0		4
			3500	2600	325.2	403.9	30.0	60.0	0.85	20.0	1	5
1967	403.9	TC				871.3	30.0	75.0	0.85	18.0	1,540.2	6
1980	871.3	TC	2400	3600	583.7	071.3	30.0	7 5.0	0.00		.,	7
				0000	00	69	0.5	15.0	0.85	14.4	1	8
1949	69	тс	850	3600			0.5	15.0	0.85	14.4		9
1949	69		850	3600		69	I .	15.0	0.85	14.4		10
1949	69		850	3600		69	0.5	1		18.0		11
1956	156.3	TC	2000		125	156.3	0.5	30.0	0.85		519.6	
1957	156.3		2000	3600	125	156.3	0.5	30.0	0.85	18.0	519.0	
		ì	Į.		ļ							13
1959	272	cc	2400	3600	108.8	136	25.0	45.0				14
1000				l	108.8	136	25.0	45.0				15
1961	272	cc	2400	3600	108.8	136	25.0	45.0				16
1901			1		108.8	136	25.0	45.0	0.85			17
1975	692.5	тс	1800	3600		692.5	15.0	60.0	0.85	26.0		18
1975	092.5		'000	""				Į.				19
1977	709.8	тс	1800	3600	518	709.8	45.0	75.0	0.85	26.0	1,946.3	20
1977	703.0							ļ		İ		21
1955	156.3	тс	2000	3600	125	156.3	0.5	30.0	1			22
1958	156.3		2000		125	156.3	0.5	30.0	0.85	18.0	312.6	
1950	100.0	1			1	ł		İ	1	ŀ	1	24
						1				1		25
1052	106.3	в тс	1450	3600	85	106.3	0.5	30.0	0.85	14.4	1	26
1952			1450			106.3	0.5	30.0		14.4	1	27
1952	106.3		1450		106.3	132.8	0.5	30.0	1	1	345.5	5 28
1953	132,8	TC	1450	3000	100.5	102.0	1 5.5	55.5	3.30	1		30
		1									1	31
1	1	i	1	1	1	1		1				نتبد

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### STEAM-ELECTRIC GENERATING PLANTS (Continued)

(1) Respondent, Michigan Public Power Agency and Wolverine Power Supply Cooperative, nonassociated companies, are co-owners, as tenants in common, of the J H Campbell No 3 unit with Respondent having a 93.31% undivided interest, Michigan Public Power Agency a 4.80% undivided interest, Wolverine Power Supply Cooperative a 1.89% undivided interest. Respondent is operator of the plant and is responsible for operation and maintenance. Respondent and the other owners are entitled to the generating capability and energy output of the unit in the percentages indicated above. Respondent and Michigan Public Power Agency also are co-owners, as tenants in common, of substation and certain transmission facilities included in the project. Respondent and Wolverine Power Supply Cooperative also are co-owners, as tenants in common, of certain transmission facilities included in the project.

Operation, maintenance and other expenses are shared by Respondent and other owners according to contractual arrangements.

Expense accounts affected are steam-electric power generation operation and maintenance accounts, transmission operation and maintenance accounts, certain administrative and general operation accounts and general tax accounts.

(2)	B.C. Cobb units 1-3 are name plate rated at 69 mw each.	With 3 units running,	, the combined plant o	output is
	common header limited to 183 mw.			

## HYDROELECTRIC GENERATING PLANTS

- 1. Report on this page Hydro plants of 10,000 Kw (name plate rating) or more of installed capacity.
- 2. Report the information called for concerning generating plants and equipment at year end. Show associated prime movers and generators on the same line.
- 3. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
- 4. Designate any plant or portion thereof for which

the responsibility is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant, or portion thereof, for which the respondent is not the sole owner but which respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars

i				explaining the c	arrangemer	it and giving po		
Line No.	Name of Plant	me of Plant Location		Water Wheels (In column (e), indicate whether horizontal or vertical. Also indicate type of runner - Francis (F), propeller (FP), automatically adjustable propeller (AP), impulse (I). Designate reversible type units by appropriate footnote)				
NO.	Name of Flank	2000.1011	Name of Stream	Attended or Unattended	Type of Unit	Year Installed	Gross Static Head With Pond Full	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
1 2 3	Hardy	Newaygo County, Big Prairie Township	Muskegon	Attended*	Vert F Vert F Vert F	1931 1931 1931	99.5' 99.5' 99.5'	
4 5 6	Hodenpyl	Wexford County, Springville Township	Manistee	Attended*	Vert F Vert F	1925 1925	67.5' 67.5'	
7 8 9 10 11	Tippy	Manistee County, Wellston	Manistee	Attended*	Vert F Vert F Vert F	1918 1918 1918	56.0' 56.0' 56.0'	
12 13 14 15 16 17 18 19 20 21 22 23 24 25								
26 27 28 29 30 31 32 33 34 35 36 37 38 39		* Part-time attendance						

### HYDROELECTRIC GENERATING PLANTS (Continued)

(details) as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

5. Designate any plant or portion thereof leased to another company, and give name of lessee, date and

term of lease and annual rent, and how determined. Specify whether lessee is an associated company.

6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or

equipment was not operated within the past year, explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

100	Water Wheels (Continued)				Gene	erators			Total	
				Voltage	Phase	Frequency	Nameplate Rating of Unit	No. of	Installed Generating Capacity (Name Plate	Line
Design Head		Capacity of Unit at Design Head	Installed			or d.c.	(In mega- watts) (o)	Units in Plant (p)	Ratings) (In megawatts) (q)	No.
(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)	(P)	(4)	
99, 98, 99,	163.6 163.6 163.6	14,800 14,800 14,800	1931 1931 1931	7.5 7.5 7.5	3 3 3	60 60 60	10 10 10	1 1 1	30	1 2 3 4
62' 62'	120 120	12,000 12,000	1925 1925	7.5 7.5	3	60 60	9.0 9.0	1 1	18	5 6 7
62' 57.5' 57.5' 57.5'	120 109.1 109.1 109.1	12,000 10,000 10,000 10,000	1925 1918 1918 1918	7.5 7.5 7.5 7.5	3 3 3	60 60 60	6.7 6.7 6.7		20	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

#### PUMPED STORAGE GENERATING PLANTS

- Include in this schedule pumped storage plants of 10,000 Kw (name-plate rating) or more of installed capacity.
- 2. Report the information called for concerning generating plants and equipment at year end. Shwo associated prime movers and generators on the same line.
- 3. Exclude from this schedule the book cost of plant included in Account 121, *Nonutility Property*.
- 4. Designate any plant or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any

1									
Line No.	Name of Plant	Location	Name of Stream	WATER WHEELS OF HYDRAULIC TURBINES/PUMPS (In column (e), indicate whether horizontal or vertical or inclined. Also indicate type of runner - Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), impulse (I), or Tublar (T). Designate reversible type units by appropriate footnote)					
				Attended or	Type of	Year	Gross Static	Design	
1 1				Unattended	Unit	Installed	Head With	Head	
							Pond Full		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
1 2 3 4 5 6 7 8	Ludington (1)	Ludington	Lake Michigan	Attended	Vert F (2) Vert F Vert F Vert F Vert F Vert F	1973 1973 1973 1973 1973 1973	363.7' (3) 363.7' 363.7' 363.7' 363.7' 363.7'	353' 353' 353' 353' 353' 353'	

(1) Respondent and the Detroit Edison Company, a nonassociated company, are co-owners, as tenants in common, of the Ludington Pumped Storage Plant with Respondent having a 51% undivided interest and Detroit Edison a 49% undivided interest. A license for Project No 2680 has been issued by the Federal Power Commission to the two companies as joint licensees. The project includes the pumped storage plant, substation and certain transmission facilities. Respondent is operator of the plant and is responsible for operation and maintenance, except that operating agreement specifies that mutual agreement be sought on major operation and maintenance matters pertaining to the plant. Respondent and Detroit Edison are entitled to 51% and 49%, respectively, of the generating capability and energy output of the plant with pumping energy being supplied in the same percentages.

Operation, maintenance and other expenses of the project are shared by Respondent and Detroit Edison, 51% and 49%, respectively.

Expense accounts affected are hydraulic power generation operation and maintenance accounts, transmission operation and maintenance accounts, certain administrative and general operation accounts and general tax accounts.

(2) All units are reversible pump/turbines.

(3) Change in Gross Static Head with pond full due to increase in average lake level for 2003.

#### PUMPED STORAGE GENERATING PLANTS (Continued)

generating plant, other than a leased plant, or portion thereof, for which the respondent shares in the operation of, furnish a concise statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner,

basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

		\$	SEPARA	TE MOTO	R-DRIVEN F	PUMPS			
RPM (Designate	Maximum Hp Capacity of Unit	Year Installed	Туре	RPM	Phase	Frequency or d.c.	NAME PLATE RATING IN		Line No
whether turbine or pump)	at Design Head						Нр	MVa	
(i)	(i)	(k)	(1)	(m)	(n)	(o)	(p)	(p)	
	None								1 2 3 4 5 6 6 7 8 8 9 100 111 12 133 144 155 166 177 188 199 20 21 22 23 24 25 266 277 28 29 30 31 32 33 34 35 36 37

# **BLANK PAGE**

### PUMPED STORAGE GENERATING PLANTS (Continued)

- 5. Designate any plant or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.
- 6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether is has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

		G (In Col	ENERATORS	OR GENERATO	OR/MOTORS enerator or motor)		
Line No.	Year Installed	Voltage	Phase	Frequency or d.c.	Nameplate Rating of Unit (In megawatts) (Designate whether MVa, MW, or Hp; indicate power factor)	Number of Units in Plant	Total Installed Generating Capacity (Nameplate Ratings) (In megawatts)
	(r)	(s)	(t)	(u)	(v)	(w)	(x)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 6 37	1973	20.0	3	60 Hz	Generator 329.8 MW 0.85 Power Factor	6	1,978.8

# INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS

- 1. Include on this page internal-combustion engine and gas-turbine plants of 10,000 kilowatts and more.
- 2. Report the information called for concerning plants and equipment at end of year. Show associated prime movers and generators on the same line.
- 3. Exclude from this page, plant, the book cost of which is included in Account 121, *Nonutility Property*.
- 4. Designate any plants or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant other than a leased plant, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the

			(In c	olumn (e), i	ndicate b	me Movers pasic cycle for gas-turbine	as open or
l			clos	ed; indicate	basic cy	cle for internal-combustion	n as 2 or 4)
Line	Name of Plant	Location	Internal-	Year	Cycle	Belted	Rated Hp
No.		of Plant	Combustion or	Installed		or Direct	of Unit
			Gas-Turbine	4.5	, ,	Connected	(a)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
			O Tombine	1966	Open	Direct Connected	_
1	Gaylord	Gaylord	Gas-Turbine Gas-Turbine	1968	Open	Direct Connected	_
2		1	Gas-rurbine	1900	Open	Bilect Conficeted	
3 4 5	Campbell	West Olive	Gas-Turbine	1968	Open	Direct Connected	-
6	Morrow	Comstock	Gas-Turbine	1968	Open	Direct Connected	-
7	MOHOW	Combiook	Gas-Turbine	1969	Open	Direct Connected	-
8					'	i	
9	Weadock	Essexville	Gas-Turbine	1968	Open	Direct Connected	-
10						Division Comments of	
11	Whiting	Near Erie	Gas-Turbine	1968	Open	Direct Connected	-
12 13	Straits	Mackinaw City	Gas-Turbine	1969	Open	Direct Connected	-
14 15	Thetford	North of Flint	Gas-Turbine	1970	Open	Direct Connected	-
16	Triellora	1401011 0111 1111	Gas-Turbine	1971	Open	Direct Connected	-
17			040 / 4.2		l ' l		
18				ł			
19							
20		ł					
21				ļ			
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24							
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26 27							
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32							
33							
34		}					
35							
36							
37 38							
39		-					
40							

### INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS (Continued)

operation of, furnish a succinct statement explaining the arrangement and giving particulars (details) as to such matters as percent of ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenue are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

5. Designate any plant or portion thereof leased to another cost are contemplated. company and give name of lessee, date and

term of lease and annual rent and how determined. Specify whether lessee is an associated company.

6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether it has been retired in the books of accounts or what disposition of the plant or equipment and its book cost are contemplated.

Dec. 31, 2004

	GENERATORS							
Year Installed	Voltage	Phase	Frequency or d.c.	Nameplate Rating of Unit (In megawatts)	No. of Units in Plant	Total Installed Generating Capacity (Nameplate Ratings) (In megawatts)	Line No.	
(h)	(i)	(j)	(k)	(1)	(m)	` (n) ´		
1966 1968	13.8 13.8	3 3	60 60	16.0 18.6	4 1	82.6	1 2 3	
1968	13.8	3	60	18.6	1	18.6	4 5	
1968 1969	13.8 13.8	3 3	60 60	18.0 18.0	1 1	36.0	6 7 8	
1968	13.8	3	60	18.6	1	18.6	9 10	
1968	13.8	3	60	18.6	1	18.6	11 12	
1969	13.8	3	60	21.3	1	21.3	13 14	
1970 1971	13.8 13.8	3 3	60 60	33.6 17.6	4 5	222.2	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	
							30 31 32 33 34 35 36 37 38 39 40	

	e of Respondent	This Report Is: (1) X An Original	Date of Report (Mo, Da, Yr)	Year/Period of End of 20	Report 004/Q4
Cons	sumers Energy Company	(2) A Resubmission	11	Lild Oi	
		SUBSTATIONS			
2. S 3. S to fu 4. Ir atter	eport below the information called for conce ubstations which serve only one industrial o ubstations with capacities of Less than 10 M nctional character, but the number of such sudicate in column (b) the functional character and or unattended. At the end of the page, mn (f).	r street railway customer should not ////////////////////////////////////	be listed below. with energy for resale, ma ether transmission or distr	ribution and w	hether
Line		Ubstation Character of Substation VOLTAGE (In MVa)		/a)	
No.	Name and Location of Substation	Character of Subst	Primary	Secondary	Tertiary
	(a)	(b)	(c)	(d)	(e)
	ABBE - OSCODA CO	Distrib Unattended	138.00		5 MA
	ABERDEEN - GRAND TWP	Distrib Unattended	46.00		
3	AGNEW - GRAND HAVEN TWP	Distrib Unattended	46.00		
4	ALAMO - ALAMO TWP	Distrib Unattended	46.00		
	ALBER - BATTLE CREEK TWP	Distrib Unattended	46.00		
6	ALCONA DAM - CURTIS TWP	Distrib Unattended	138.00	4.80	
7			24.90	4.80	
8	ALDER CREEK - NEWTON TWP	Distrib Unattended	138.00	24.90	
9	ALDRICH - FLINT TWP	Distrib Unattended	46.00		
10	ALGER - MOFFITT TWP	Distrib Unattended	138.00		
11	ALGOMA - ALGOMA	Trans Unattended	138.00	46.00	7.60
12	ALMA - GREENDALE TWP	Trans Unattended	138.00	46.00	10.50
13	ALMEDA - FRASER	Trans Unattended	138.00	46.00	7.59
14	ALPINE - ALPINE TWP	Distrib Unattended	138.00	12.47	
15	ALTO - LOWELL TWP	Distrib Unattended	46.00	8.32	
16	AMBER - AMBER	Trans Unattended	138.00	46.00	10.50
17	AMPERSEE - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
18	APPLE - EGELSTON TWP	Distrib Unattended	46.00	12.47	
19			46.00	8.32	
20	APPLETON - BIG RAPIDS TWP	Distrib Unattended	46.00	12.47	
21	ASHMAN CIRCLE - MIDLAND TWP	Distrib Unattended	46.00	8.32	
22	ASYLUM - FLINT CITY	Distrib Unattended	46.00	13.80	
23	ATHERTON - BURTON TWP	Distrib Unattended	46.00	8.32	
24	ATLAS - ATLAS TWP	Distrib Unattended	46.00	8.32	
25	ATWATER - TEXAS TWP	Distrib Unattended	46.00	24.90	
26			46.00	8.32	
27	AUBURN - WILLIAMS TWP	Distrib Unattended	46.00	8.32	
28	AUSTIN - PORTAGE TWP	Distrib Unattended	46.00	8.32	
29	BACKUS - BACKUS TWP	Distrib Unattended	138.00	24.90	
30	BAGLEY - BAGLEY TWP	Distrib Unattended	138.00	24.90	
31	BALLENGER - FLINT TWP	Distrib Unattended	46.00	8.32	
32	BARD ROAD - BARD ROAD	Trans Unattended	138.00	46.00	7.50
33	BARNHARD - SAGINAW TWP	Distrib Unattended	46.00	8.32	
34	BARRY - HASTINGS	Trans Unattended	138.00	46.00	10.50
35			135.00	46.00	
	BASS CREEK - ROBINSON	Trans Unattended	138.00	46.00	7.50
	BATAVIA - BATAVIA	Trans Unattended	138.00		10.50
	BATES - WHITE WATER TWP	Distrib Unattended	46.00		
	BATTEESE - HENRIETTA TWP	Distrib Unattended	46.00		

46.00

8.32

40 BAUM STREET - SAGINAW TWP

Name of Respondent		This Report Is	s:	Date of Report	Year/Period of Report	rt
Consumers Energy Compa	iny	(1) X An (	Original esubmission	(Mo, Da, Yr) / /	End of2004/Q4	<u> </u>
		SUBS	TATIONS (Continued)		<b></b>	
5. Show in columns (I), increasing capacity.	(j), and (k) special e	quipment such as	rotary converters, re	ctifiers, condensers, etc	and auxiliary equipmo	ent for
6. Designate substation	s or major items of e	equipment leased	from others, jointly ov	wned with others, or ope	erated otherwise than b	у
reason of sole ownership	by the respondent	. For any substati	on or equipment ope	rated under lease, give	name of lessor, date ar	nd
period of lease, and ann	ual rent. For any su	bstation or equipn	nent operated other t	han by reason of sole o	wnership or lease, give	name
of co-owner or other par						
affected in respondent's						
anodoa in respondente	books of accounts t	opeeny n. eaen ea		, o, o. oo. pa, .	- a a	,.
	Number of	Number of	CONVERSI	ON APPARATUS AND SP	ECIAL EQUIDMENT	Т
Capacity of Substation	Transformers	Spare				Line
(In Service) (In MVa)	In Service	Transformers	Type of Equi	pment Number of	of Units   Total Capacity	No.
(f)	(g)	(h)	(i)	(i)	(In MVa) (k)	
13	1	()			(.,	1
	<u> </u>					2
13	1:					
13	1					3
13	1					4
13	2					5
						6
13	4					L
						7
10	1					8
13	1					9
13	1					10
30	1					11
38	1	1				12
30	1					13
13	1					14
	'					
13	1]					15
100	2					16
10	1					17
16	2					18
						19
13	1					20
13	2					21
20	1					22
13	1					23
						24
13	1					1
25	2					25
						26
10	1					27
						28
13	1					1
10	1					29
25	2					30
23	2					31
30	1		,			32
						1
25	2					33
88	2					34
						35
30	1					36
						37
40	1					1
14	1					38
10	1					39
13	2					40
	-		I	l	I	1

Name of Respondent Consumers Energy Company		This (1) (2)	Report Is:  X An Original A Resubmission	Date of Report (Mo, Da, Yr)	Year/Period of Report End of2004/Q4		
		(2)	SUBSTATIONS		ļ		
<ol> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>S</li></ol>	eport below the information called for conceubstations which serve only one industrial cubstations with capacities of Less than 10 Nuctional character, but the number of such subject of column (b) the functional characted ded or unattended. At the end of the page onn (f).	or stree //Va ex substat	substations of the responden at railway customer should no cept those serving customer tions must be shown.	t be listed below. s with energy for resale hether transmission or o	, ma <u>y</u> distri	bution and wh	nether
Line		<u></u>			VC	OLTAGE (In MV	/a)
Line No.	Name and Location of Substation		Character of Sub	Primary	<u>'  </u>	Secondary	Tertiary
	(a)		(b)	(c)	5.00	(d) 8.32	(e)
	BAVARIAN - FRANKENMUTH TWP		Distrib Unattended		3.00	24.90	
	BAY ROAD - FRANKENLUST TWP		Distrib Unattended			46.00	15.00
3	BEALS ROAD - WYOMING TWP		Trans Unattended		3.00 3.00	12.47	15.00
4						46.00	
	BEAVER CREEK - BEAVER CREEK		Trans Unattended		3.00	12.47	
6	BECKER - EGELSTON TWP		Distrib Unattended		8.00	46.00	15.00
7	BEECHER - MADISON TWP		Trans Unattended		8.00	12.47	15.00
8					6.00	8.32	
9					6.00	8.32	
10	BEERS - GENESSEE COUNTY		Distrib Unattended		6.00		10.50
11			Trans Unattended		8.00	46.00	10.50
	BELDING - EUREKA TWP		Distrib Uattended		6.00	8.32	
	BELL ROAD - TAYMOUTH TWP		Distrib Unattended		8.00	24.90	
14	BELLA VISTA - ROCKFORD		Distrib Unattended		6.00	8.32	
15	BELSAY - BURTON TWP		Distrib Unattended		6.00	8.32	
16	BENNETT - MERIDIAN TWP		Distrib Unattended		6.00	8.32	
17	BENNINGTON - BENNINGTON TWP		Distrib Unattended		8.00	24.90	
18	BEVERIDGE - FLINT TWP		Trans Unattended		8.00	46.00	
19	BIG RAPIDS - BIG RAPIDS TWP		Distrib Unattended		6.00	7.56	
20	BIL MAR - OLIVE TWP		Distrib Unattended		8.00		
21	BINGHAM - BINGHAM		Trans Unattended	13	8.00		
22	BISHOP - FLINT		Distrib Unattended	4	6.00		
	BLACK RIVER - HOLLAND TWP		Trans Unattended	13	8.00	46.00	
24				13	8.00		
25	BLACKMAN - BLACKMAN TWP		Distrib Unattended	13	8.00		
26	BLACKSTONE STREET - BLACKMAN	-	Trans Unattended	13	8.00		
27	BLINTON - GRNAD BLANC TWP		Distrib Unattended	13	8.00		
28	BLISSFIELD - BLISSFIELD TWP		Distrib Unattended	4	6.00		
29	BLUE WATER - BINGHAM TWP		Distrib Unattended	13	8.00		
30	BLUEGRASS - CHIPPEWA TWP		Distrib Unattended	13	88.00	8.32	
31	BOARDMAN - GARFIELD		Trans Unattended	13	38.00	46.00	7.6
	BOMAN - FLUSHING TWP		Distrib Unattended		6.00		
	B BOON ROAD - HARING TWP		Distrib Unattended		16.00	8.32	
	BOSTON SQUARE - PARIS TWP		Distrib Unattended		16.00	12.47	'
I	BOWEN - PARIS TWP		Distrib Unattended	4	16.00	12.47	<u>'</u>
1	BREEDSVILLE - COLUMBIA TWP		Distrib Unattended		16.00	24.90	)
	7 BRETON - PARIS TWP		Distrib Unattended		16.00	12.47	
	B BRICKER - OTISCO TWP		Distrib Unattended	1:	38.00	24.90	
	BRICKYARD - HOLTON TWP		Distrib Unattended	1;	38.00	46.00	)
	DRIDGE STREET MCKSON		Distrib Unattended		46.00	8.32	2

Name of Respondent Consumers Energy Compar	nv	This Report Is	Priginal	Date of Report (Mo, Da, Yr)	Year/Period of Report End of2004/Q4	
Consumers Energy Compar	·,	1 ` ' L	esubmission ATIONS (Continued)	, ,		
		SUBSI	retery convertors, re-	ctifiers condensers etc	and auxiliary equipme	nt for
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annu of co-owner or other part affected in respondent's	s or major items of e	quipment leased to For any substation postation or equipments	from others, jointly over on or equipment oper ment operated other to	wned with others, or operated under lease, give han by reason of sole of the parties, and	erated otherwise than by name of lessor, date and wnership or lease, give i state amounts and acco	d name ounts
	Number of	Number of	CONVERSI	ON APPARATUS AND SP	FCIAL EQUIPMENT	Line
Capacity of Substation	Number of Transformers	Spare				No.
(In Service) (In MVa)	In Service	Transformers	Type of Equi	1	(In MVa)	
(f)	(g)	(h)	(i)	(j)	(k)	1
13	1					2
60	2					3
260	5					4
						5
30	1					6
13	1					7
185	4					8
						9
						10
13	1					11
38	1					
13	1					12
13	1					13
13	1					14
13	1					15
12	1					16
13	1					17
200	2					18
13	1					19
20	1					20
40	1					21
14	1					22
80	3					23
						24
20	1					25
136			1			26
48						27
10						28
10					-	29
13						30
88						31
13						32
13						33
25						34
21						35
13						36
80						37
14						38
50						39
13						40
	Ί ΄					

	of Respondent umers Energy Company	(1) X An Original (Mo, Da (2) A Resubmission / /	Report a, Yr)	Year/Period of End of 20	Report 004/Q4
		SUBSTATIONS			
2. Su 3. Su to fur 4. In atten	ubstations which serve only one industrial of ubstations with capacities of Less than 10 M notional character, but the number of such services of the control character.	erning substations of the respondent as of the r street railway customer should not be listed MVa except those serving customers with enesubstations must be shown.  To of each substation, designating whether transummarize according to function the capacitic	rgy for resale, mansmission or distr	ibution and w	hether
Line			V	OLTAGE (In M\	/a)
No.	Name and Location of Substation	Character of Substation	Primary	Secondary	Tertiary
	(a)	(b)	(c)	(d)	(e)
1	BRIDGEPORT - BRIDGEPORT TWP	Distrib Unattended	46.00		
2	BRISTOL - SAGINAW TWP	Distrib Unattended	46.00		
3	BROADMOOR - PARIS TWP	Distrib Unattended	138.00		15.00
4			138.00		
5	BROADWAY - FRIUTPORT TWP	Distrib Unattended	46.00		
6	BROUGHWELL - RIVES TWP	Distrib Unattended	138.00		15.00
7	BUCK CREEK - BUCK CREEK	Trans Unattended	138.00		15.20
8	BULLOCK - MIDLAND TWP	Trans Unattended	138.00		10.50
9			46.00		
10	BURLINGAME - WYOMING TWP	Distrib Unattended	46.00		
11	BURROWS - SAGINAW TWP	Distrib Unattended	46.00		
12	BURTCH ROAD - GRASS LAKE TWP	Distrib Unattended	46.00		
13	BYRON CENTER - BYRON TWP	Distrib Unattended	46.00		
14			46.00		
15	CADILLAC - CLAM LAKE TWP	Distrib Unattended	46.00		
16			46.00		
17	CADMUS - MADISON TWP	Distrib Unattended	46.00		
18	CALHOUN - CALHOUN	Trans Unattended	138.00		<u> </u>
19	CALKINS - FLINT TWP	Distrib Unattended	46.00	8.32	
	CALVIN - PARIS TWP	Distrib Unattended	46.00	12.47	
1	CAMELOT LAKE - UNION TWP	Distrib Unattended	138.00	24.90	
	CANNON - CANNON	Trans Unattended	138.00	46.00	10.5
1	CARROLL - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
	CARROLLTON - BUENA VISTA TWP	Distirb Unattended	23.00	8.32	
1	CARY ROAD - COLUMBIA TWP	Distrib Unattended	46.00	24.90	
	CASCADE - CASCADE TWP	Distrib Unattended	46.00	8.32	
	CASINO - MT PLEASANT	Distrib Unattended	46.00	8.32	
	CASS ROAD - GARFIELD TWP	Distrib Unattended	46.00	12.47	<b>'</b>
	CEDAR SPRINGS - SOLON TWP	Distrib Unattended	138.00	24.90	
	CEMENT CITY - COLUMBIA TWP	Distrib Unattended	138.00	46.00	10.5
	CENTER ROAD - BURTON TWP	Distrib Unattended	46.00	8.32	2
	CENTREVILLE - NOTTAWA TWP	Distrib Unattended	46.0	24.90	
	CHAFFEE - GRAND RAPIDS TWP	Distrib Unattended	46.0	0 12.47	7
34		Distrib Unattended	46.0	0 8.32	2
	CHASE - CHASE	Trans Unattended	138.0	0 46.00	
	CHAUNCEY - SHERIDAN TWP	Distrib Unattended	46.0	0 8.32	2
	CHEBOYGAN - BENTON TWP	Distrib Unattended	46.0	0 12.47	7
	CHESANING - CHESANING TWP	Distrib Unattended	46.0	0 8.32	2
	O CHEYENNE - SAGINAW TWP	Distrib Unattended	46.0	0 8.32	2
	CHICAGO - GEORGETOWN TWP	Distrib Unattended	138.0	0 12.47	7

40 CHICAGO - GEORGETOWN TWP

				5-1- (5	Veer/Design of Design				
Name of Respondent		This Report Is	s: Driginal	Date of Report (Mo, Da, Yr)	Year/Period of Repo				
Consumers Energy Compa	ny	(2) A Re	esubmission	11	Liid Oi 200 # G	-			
			TATIONS (Continued)			f			
5. Show in columns (I), (	(j), and (k) special ed	quipment such as	rotary converters, rec	ctifiers, condensers, etc	and auxiliary equipm	ent for			
increasing capacity.	creasing capacity.  Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by								
reason of sole ownership	by the respondent.	For any substati	on or equipment oper	ated under lease, give	name of lessor, date a	nd			
period of lease, and anni	ual rent. For any sul	bstation or equipm	nent operated other th	nan by reason of sole o	wnership or lease, give	e name			
of co-owner or other part	v. explain basis of s	haring expenses	or other accounting b	etween the parties, and	l state amounts and ac	counts			
affected in respondent's	books of account. S	Specify in each ca	se whether lessor, co	-owner, or other party i	s an associated compa	any.			
	Number of	Number of	CONVERSION	ON APPARATUS AND SP	PECIAL EQUIPMENT	Line			
Capacity of Substation (In Service) (In MVa)	Transformers	Spare	Type of Equip		of Units Total Capacity	_			
	In Service	Transformers	(i)	(i)	(In MVa)				
(f) 13	(g)	(h)	(0)		(K)	1			
13						2			
225	3					3			
225						4			
25	2					5			
10	1					6			
100	1					7			
83	3					8			
						9			
26	3					10			
19	2					11			
10	1					12			
25	2					13			
						14			
19	3					15			
						16			
13	1					17			
30	1					18 19			
25	2		<u> </u>						
40	2					20			
13	1					22			
30	1					23			
13	1					24			
13	3					25			
14	1					26			
27	2					27			
13	1					28			
20						29			
						30			
10						31			
13						32			
20						33			
14						34			
18						35			
13					<u>′</u>	36			
15						37			
13						38			
25						39			
12						40			
_									

Name	e of Respondent	This Report Is:	Date	of Report	Year/Period of	
Cons	sumers Energy Company	(1) X An Original (2) A Resubmi		Da, Yr)	End of20	004/Q4
		` ' 🗀	ATIONS			
2. S 3. S to fu 4. Ir atter	Report below the information called for conce substations which serve only one industrial or substations with capacities of Less than 10 M nctional character, but the number of such substate in column (b) the functional character and or unattended. At the end of the page, mn (f).	r street railway custo IVa except those se ubstations must be r of each substation	omer should not be listerving customers with en shown. , designating whether tr	d below. ergy for resale, ma ansmission or distr	ibution and w	hether
Line				V	OLTAGE (In M\	/a)
No.	Name and Location of Substation	'	Character of Substation	Primary	Secondary	Tertiary
	(a)		(b)	(c)	(d)	(e)
1	CLARE - GRANT TWP	Distrib	Unattended	138.00	24.90	
2	CLAREMONT - BRIDGEPORT		Unattended	138.00	46.00	15.00
3	CLAY - GRAND RAPIDS TWP	Distrit	Unattended	46.00	7.55	
4	CLEARWATER - CLEARWATER	Trans	Unattended	138.00	46.00	
5	CLEVELAND - SPRING LAKE	Trans	Unattended	138.00	46.00	15.20
6	CLIO - VIENNA TWP	Distrib	Unattended	46.00	8.32	
7	CLUB - DALTON TWP	Distrib	Unattended	138.00	12.47	
8	CLYDE ROAD - IONIA TWP	Distrib	Unattended	46.00	24.90	
9	COBB B C PLANT - MUSKEGON	Trans	Attended	138.00	17.50	
10				138.00	46.00	4.50
11	COCHRAN - EATON TWP	Distrit	Unattended	138.00	24.90	
12	COLE CREEK - FLUSHING	Trans	Unattended	138.00	46.00	7.60
13	COLEMAN - WARREN TWP	Distrit	Unattended	46.00	8.32	
14	COLLEGE PARK - MADISON TWP	Distrit	Unattended	46.00	12.47	
15	COLONY FARM - KALAMAZOO	Distrit	Unattended	138.00	24.90	
16	COMSTOCK - COMSTOCK TWP	Distrit	Unattended	46.00	8.32	
17	CONVIS - CONVIS TWP	Distrit	Unattended	138.00	24.90	
18	CONWAY - LITTLE TRAVER TWP	Distrit	Unattended	46.00	13.80	
19	COOKE DAM - OSCODA TWP	Distirt	Unattended	46.00	2.40	
20				5.00	2.40	
21	COOLEY - KALAMAZOO TWP	Distrib	Unattended	46.00	8.32	
22	COOPERSVILLE - POLKTON TWP	Distrib	Unattended	46.00	8.32	
23	CORNELL - CALEDONIA	Trans	Unattended	138.00	46.00	
24	CORUNNA - CALEDONIA TWP	Distril	Unattended	46.00	8.32	
25	COTTAGE GROVE - KAWKAWLIN TWP	Distril	Unattended	138.00	24.90	
26	COURT - BURTON TWP	Distril	Unattended	46.00	8.32	
27	COWAN LAKE - CANNON TWP	Distril	Unattended	138.00	24.90	
28	CRAWFORD - UNION TWP	Distril	Unattended	46.00	8.32	
29	CROTON - CROTON TWP	Trans	Unattended	138.00	46.00	10.50
30	CURTIS - WARREN TWP	Distril	Unattended	46.00	8.32	
31	CUTLERVILLE - BYRON TWP	Distril	Unattended	46.00	12.47	
32	DAVENPORT - SAGINAW TWP	Distril	Unattended	46.00	8.32	
33	DAVISON - DAVISON TWP	Distril	Unattended	46.00	8.32	
34	DEAN ROAD - TYRONE TWP	Distril	Unattended	138.00	24.90	
35	DEJA - DAY	Trans	Unattended	140.00	22.00	10.00
36	DELANEY - BURTON	Trans	Unattended	138.00	46.00	15.20
37	DELHI - LANSING	Trans	Unattended	138.00	46.00	10.00
38	DEWEY - WALKER TWP	Distril	Unattended	46.00	12.47	
39	DEWITT - DEWITT TWP	Distril	Unattended	46.00	8.32	
	DIMONDALE - WINDSOR TWP	Distril	Unattended	46.00	8.32	

		T +L:= -	Poport Is:	Date of Report	Year/Period of Repor	t 7
Name of Respondent		(1)	Report Is:  X An Original	(Mo, Da, Yr)	End of 2004/Q4	
Consumers Energy Compan	у	(2)	A Resubmission	11		
		<u> </u>	SUBSTATIONS (Continued)			
ncreasing capacity.  3. Designate substations	or major items of eq	uipment le	uch as rotary converters, receased from others, jointly own ubstation or equipment operations.	ned with others, or ope	erated otherwise than by name of lessor, date an	y nd
	I wanshi Eaw answarchi	otation or	equipment operated other if	ian by reason of sole o	Wileiship of Icase, give	
• 11		arina avno	ancae ar ather accounting De	eiween ine bailles, and	i State announts and acc	JC G1.14C
offected in respondent's l	hooks of account. So	ecify in e	each case whether lessor, co-	-owner, or other party i	s an associated compa	ny.
anected in reopendence .		•				
Capacity of Substation	Number of	Number		ON APPARATUS AND SP		Line
(In Service) (In MVa)	Transformers In Service	Spare Transform		ment Number	of Units Total Capacity (In MVa)	No.
(f)	(g)	(h)	(i)	(i)		1
14	1					1
200	2					2
20	1					3
30	1					4
60						5
19	2					6
12	1					7
13	1					8
170						9
200	2					10
13	1					11
30						12
13	1					13
20	1					14
13	1					15
14	2					16
13	1					17
13	1					18
13	4					19
						20
22	3					21
13						22
100						23
13						24
10						25
20						26
13						27
13						28
30	<del> </del>					29
13	<u> </u>					30
23	<del> </del>					3
13						32
25	1					33
30						34
40						3:
100	<u> </u>					30
80	1					3
40						3
25						3
10						4
	1 '					
I					The state of the s	

	e of Respondent	This R	teport Is: X]An Original	Date of Report (Mo, Da, Yr)	Year/Period End of	of Ro 2004	•	
Cons	sumers Energy Company	(2)	A Resubmission	11				
			SUBSTATIONS					
2. S 3. S to fur 4. In atter	eport below the information called for conce ubstations which serve only one industrial or ubstations with capacities of Less than 10 M nctional character, but the number of such sudicate in column (b) the functional character ided or unattended. At the end of the page, mn (f).	r street IVa exc ubstation r of eac	railway customer should tept those serving custom ons must be shown. th substation, designating	not be listed below. ers with energy for resale whether transmission or	, may be group	d whe	ether	
Line			Ohamadan of S	batatian	VOLTAGE (In M\		MVa)	
No.	Name and Location of Substation		Character of S	Ubstation Primary	Secondar	/	Tertiary	
	(a)		(b)	(c)	(d)	_	(e)	
1	DIXIE - MT MORRIS TWP		Distrib Unattended	46		32	22.251	
2	DOEHLER JARVIS - PARIS TWP		Distrib Unattended	46	5.00 12.			
3	DORR CORNERS - DORR TWP		Distrib Unattended			.32	a	
4	DORT - GENESEE		Trans Unattended		).00 46.		21.00	
5				138	3.00 46.	.00		
6	DOWLING - HUDSON		Trans Unattended	138		.00		
7	DRAKE ROAD - OSHTEMO TWP		Distrib Unattended	138	3.00 8.	.32		
8	DUFFIELD - CLAYTON TWP		Distrib Unattended	138		.90		
9	DURAND - VERNON TWP		Distrib Unattended			.32		
10	DUTTON - GAINES TWP		Distrib Unattended	138	3.00 12.	.47		
11	EAST BAY - EAST BAY TWP		Distrib Unattended	41	5.00 12.	.47		
12	EAST GENESEE AVENUE - BUENA VISTA TW	'P	Distrib Unattended	41	5.00 8.	.32		
13	EAST JORDAN - SOUTH ARM TWP		Distrib Unattended	41	5.00 12	.47		
14	EAST MUSKEGON - MUSKEGON TWP		Distrib Unattended	4	5.00 12	.47		
15	EAST TAWAS - BALDWIN TWP		Distrib Unattended	13	3.00 24	.90		
16	EASTON - EASTON TWP		Distrib Unattended	13	3.00 24	.90		
17	EASTWOOD - KALAMAZOO TWP		Distrib Unattended	4	6.00 8	.32		
18	EDENVILLE DAM - EDENVILLE		Distrib Unattended	13	3.00 46	.00	5.20	
19				4	5.00 2	.50	****	
20	ELLSWORTH - WALKER TWP		Distrib Unattended	4	5.00 12	.47		
21	ELM STREET - EMMET TWP		Distrib Unattended	13	3.00 46	.00	10.50	
22				13	3.00 8	.32		
23				4	5.00 8	.32		
24	ELMWOOD - ELMWOOD		Trans Unattended	13	3.00 46	.00	7.50	
25	EMERALD - KALAMAZOO TWP	31.2.21	Distrib Unattended	4	6.00 8	.32		
26	EMMET - BEAR CREEK		Trans Unattended	13	3.00 46	.00	7.50	
27	ENGLISHVILLE - ALGOMA TWP		Distrib Unattended	13	3.00 24	.90		
28	ESSEXVILLE - BANGOR TWP		Distrib Unattended	4	6.00 8	.32		
29	EUREKA - EUREKA		Trans Unattended	13	3.00 46	.00		
30	EVANSTON - EGELSTON TWP		Distrib Unattended	4	6.00 12	.47		
31	FAIRBANKS - WALKER TWP		Distrib Unattended	4	6.00 12	.47		
32	FARR ROAD - MAINSTEE		Trans Unattended	13	8.00 46	.00		
33	FELCH ROAD - GARFIELD		Trans Unattended	13	8.00 46	.00	10.50	
34	FENNVILLE - CLYDE TWP		Distrib Unattended	4		.32		
35	FENTON - FENTON TWP		Distrib Unattended	4		.32		
36	FERGUSON - SUMMIT TWP		Distrib Unattended	4	6.00 8	.32		
37	FILLMORE - BLENDON TWP		Distrib Unattended	13	8.00 12	.47		
38	FLUSHING - FLUSHING TWP		Distrib Unattended	4	6.00 8	.32		
39	FOOTE HYDRO - OSCODA TWP		Distrib Unattended	4	6.00 4	.80		
					F 00l 4	90		

				Date of Descri	Year/Period of Re	enort
Name of Respondent		This Report Is:	: riginal	Date of Report (Mo, Da, Yr)	End of 2004	
Consumers Energy Compar	ny 	(2) A Res	submission	11		
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annuof co-owner or other part	s or major items of e by the respondent. ual rent. For any su	equipment such as in equipment leased for any substation betation or equipment leases of the station expenses of the station e	rom others, jointly ov on or equipment oper nent operated other the or other accounting b	vned with others, or op rated under lease, give han by reason of sole etween the parties, an	perated otherwise that e name of lessor, date ownership or lease, g nd state amounts and	n by e and give name accounts
affected in respondent's	books of account. S	Specify in each cas	se wnetner iessor, co	-owner, or other party	is all associated con	iipariy.
	Number of	Number of	CONVERSION	ON APPARATUS AND S	PECIAL EQUIPMENT	Line
Capacity of Substation (In Service) (In MVa)	Transformers In Service	Spare Transformers	Type of Equi	pment Numbe	r of Units Total Capa (In MVa	
(f)	(g)	(h)	(i)		(j) (k)	<del>-   1</del>
13	1					2
25	2					3
13	1					4
200	2					5
20	1					6
30 40	2					7
13	1					8
10	1					9
32	2					10
13	1					11
13	2					12
13	1					13
13	1					14
13	1					15 16
20	1					17
13	1					18
21	4					19
						20
60						21
98	3					22
						23
30	1					24
30 13						25
30						26
13						27
10						28
30						29
25						30
40	2					31
30	1					32
38	1					33
13	1					34
14	1					35
13	1					37
10						38
13						39
11		5				40

-	e of Respondent	This (1) (2)	Report Is:  X An Original A Resubmission	Date of Report (Mo, Da, Yr) / /		Year/Period of End of 20	Report 004/Q4
		(2)	SUBSTATIONS				
2. Si 3. Si to fur 4. In atten	eport below the information called for conceubstations which serve only one industrial oubstations with capacities of Less than 10 Nonctional character, but the number of such sudicate in column (b) the functional characted or unattended. At the end of the page, mn (f).	or stree //Va ex substa er of ea	substations of the responder et railway customer should no xcept those serving customer ations must be shown.	ot be listed below. rs with energy for resa whether transmission of	ale, ma	ribution and w	hether
Lino					V	OLTAGE (In M\	/a)
Line No.	Name and Location of Substation		Character of Sub	ostation Prim	ary	Secondary	Tertiary
	(a)		(b)	(c		(d)	(e)
1					5.00		
2	FORDYCE - UNION TWP		Distrib Unattended		46.00		
3	FORT CUSTER - BEDFORD TWP		Distrib Unattended		138.00		
4	FOUNTAIN - BATTLE CREEK TWP		Distrib Unattended		46.00		
5					46.00		
6					46.00		45.00
7	FOUR MILE - WALKER TWP		Trans Unattended		138.00		15.00
8					138.00		15.00
9			Distrib Unattended		46.00		
	FRANCIS ROAD - FLUSHING TWP		Distrib Unattended		46.00		
	FRANKENMUTH - FRANKENMUTH TWP		Distrib Unattended		46.00		
	FREELAND - TITTABAWASSEE TWP		Distrib Unattended		46.00	ļ —	
	FREMONT - SHERIDAN TWP		Distrib Unattended		46.00		
14	FULTON - ADA TWP		Distrib Unattended		46.00		
15			Distrib Unattended		46.00 138.00		5.25
16			Trans Unattended				5.23
17			Distrib Unattended		46.00		
	GETTY - MUSKEGON TWP		Distrib Unattended		46.00		
	GILKEY CREEK - DAVISON TWP		Distrib Unattended				
	GILSON - RICHLAND TWP		Distrib Unattended		46.00		
	GLADWIN - GROUT TWP		Distrib Unattended		46.00		
	GLEANER - TITTABAWASSEE		Trans Unattended		46.00		
	GLEN LAKE - GLEN ARBOR TWP		Distrib Unattended		46.00		
	GLENDALE - KALAMAZOO TWP		Distrib Unattended		46.00		
	GOGUAC - BATTLE CREEK TWP		Distrib Unattended		46.00		
	GOLDEN - MIDLAND TWP		Distrib Unattended		46.00		
	GOODALE - BEDFORD TWP		Distrib Unattended Distrib Unattended		46.00		
	GRAND BLANC - GRAND BLANC TWP		Distrib Unattended		46.00		
	GRAND LEDGE - ONEIDA TWP		Distrib Unattended		46.00		
	GRAND RIVER - MERIDIAN TWP		Distrib Unattended		46.00		
	GRAND VALLEY - TALLMADGE TWP		Distrib Unattended		46.00		
	GRANDVILLE - WYOMING TWP		Distrib Unattended		46.00		
	GRAYLING - GRAYLING TWP		Distrib Unattended		46.00		
34			Distrib Unattended		46.00		ļ
35			Distrib Unattended		138.00		
	GREENWOOD - HORTON TWP		Distrib Unattended		138.00		ļ
<u> </u>	GRODI ROAD - ERIE TWP		Trans Unattended		138.00		
	GROUT - GROUT  GROVER - ARCADIA TWP		Distrib Unattended		46.00		
	HACKETT - TITTABAWASSEE TWP		Distrib Unattended		138.00		
40	HINONETT - HTTADAWAGGEE TWE		Distrib Strattoriood	1		1	l

Name of Respondent			n Original	Date of Report (Mo, Da, Yr)	Year/	Period of Report of 2004/Q4	
Consumers Energy Compar	1y 	1 ' ' L	Resubmission	11			
		SUE	BSTATIONS (Continued)	-MC		viliany agricus	nt for
<ol> <li>Show in columns (I), (increasing capacity.</li> <li>Designate substations reason of sole ownership period of lease, and annu of co-owner or other part affected in respondent's least columns.</li> </ol>	s or major items of eq by the respondent. ual rent. For any sub	uipment lease For any subst station or equi	ed from others, jointly ovation or equipment oper ipment operated other to es or other accounting b	wned with others, or op- rated under lease, give han by reason of sole o etween the parties, and	erated oth name of lownership d state am	erwise than by essor, date and or lease, give lounts and acc	d name ounts
	Number of	Number of	CONVERSI	ON APPARATUS AND SF	PECIAL EQ	UIPMENT	Line
Capacity of Substation	Transformers	Spare	Type of Equi			Total Capacity	No.
(In Service) (In MVa)	In Service	Transformers				(In MVa) ´	
(f)	(g)	(h)	(i)	Ú	<del>)  </del>	(k)	1
							2
13	1						3
60	2						4
35	3						5
							6
							7
240	4						8
							9
25	2						10
10	1						11
13	1						
10	1						12
27	3						13
23	2						14
10	1						15
15	1						16
13	1						17
10	1						18
13	1						19
10	1						20
13	2						21
50	1						22
12	2						23
13	1						24
13	1						25
13							26
13							27
19						i	28
20							29
23							30
13							31
							32
25							33
12							34
13							35
13							36
13							37
30							38
30							39
13							40
13	1						

	e of Respondent	This Report Is: Date of Re (1) X An Original (Mo, Da, N		Year/Period of End of 20	Report 104/Q4
Cons	umers Energy Company	(2) A Resubmission / /			
		SUBSTATIONS			
<ol> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>Si</li> <li>S</li></ol>	ubstations which serve only one industrial oubstations with capacities of Less than 10 Nonctional character, but the number of such subjects in column (b) the functional character.	erning substations of the respondent as of the er or street railway customer should not be listed be MVa except those serving customers with energy substations must be shown. er of each substation, designating whether transr , summarize according to function the capacities	eiow. y for resale, ma mission or distri	ibution and wl	hether
Lino			V	OLTAGE (In MV	/a)
Line No.	Name and Location of Substation	Character of Substation	Primary	Secondary	Tertiary
	(a)	(b)	(c) 138.00	(d) 8.32	(e)
	HAGADORN - MERIDIAN TWP	Distrib Unattended		12.47	
	HAGER PARK - GEORGETOWN TWP	Distrib Unattended	138.00	46.00	
	HALSEY - HOLLY TWP	Trans Unattended	138.00		
	HAMILTON - HEATH TWP	Distrib Unattended	46.00	8.32	
	HAMMOND RD - GARFIELD TWP	Distrib Unattended	46.00	12.47	
6	HANSEN - WYOMING TWP	Distrib Unattended	46.00	12.47	
	HARDY DAM - HARDY DAM	Trans Unattended	138.00	7.50	
1	HARING - BOON TWP	Distrib Unattended	138.00		
	HARLEM - OLIVE TWP	Distrib Unattended	46.00		
10	HARPER ROAD - DELHI TWP	Distrib Unattended	46.00	24.90 8.32	
11		Distrib Unattended	46.00		
1	HARVEY STREET - GRAND RAPIDS TWP	Distrib Unattended	46.00		
13	HASKELITE - WALKER TWP	Distrib Unattended	46.00		
14		Distrib Unattended	46.00		
15	HAYES STREET - GRAND HAVEN TWP	Distrib Unattended	46.00		
16	HAZELWOOD - GUN PLAIN	Trans Unattended	138.00		
	HEMLOCK - RICHLAND TWP	Distrib Unattended	46.00		
1	HEMPHILL - BURTON TWP	Trans Unattended	140.00		
19	HENDERSHOT - MACON TWP	Distrib Unattended	138.00		
20	HICKORY - SPRING LAKE TWP	Distrib Unattended	46.00		
21	HIGGINS - HIGGINS	Trans Unattended	138.00		
22	HODENPYL DAM - SPRINGVILLE TWP	Distrib Unattended	138.00		
23	HOGAN - ARGENTINE TWP	Distrib Unattended	46.00		
24	HOGSBACK - DELHI TWP	Distrib Unattended	46.00		
25	HOLTON - HOLTON TWP	Distrib Unattended	46.00	<del>                                     </del>	
26	HOMESTEAD - JOYFIELD TWP	Distrib Unattended	46.00	ļ	
27	HOSPITAL - GARFIELD TWP	Distrib Unattended	46.00		
28	HOTCHKISS - MONITOR TWP	Distrib Unattended	138.00		
29	HOUGHTON HEIGHTS - ROSCOMMON	Distrib Unattended	46.00		
	HUDSON - HUDSON TWP	Distrib Unattended	46.00		
31	HUDSONVILLE - GEORGETOWN TWP	Distrib Unattended	138.00		
	HUGHES ROAD - MARSHALL	Trans Unattended	138.00		
33	HULL STREET - ALGOMA TWP	Distrib Unattended	138.00		ļ
34	HUNT ROAD - ADRIAN TWP	Distrib Unattended	46.00		
35	HURON - MONITOR TWP	Distrib Unattended	46.00		
36	HYDE PARK - DALTON TWP	Distrib Unattended	46.00		
37	7 INGHAM - BLACKMAN TWP	Distrib Unattended	46.00		
38	IOSCO - OSCODA	Trans Unattended	140.00		
39	)		138.00		
40	IRISH ROAD - DAVISON TWP	Distrib Unattended	46.00	24.90	기

40 IRISH ROAD - DAVISON TWP

Name of Respondent		This F   (1)	Report Is:	ginal	Date of Report (Mo, Da, Yr)		ar/Period of Report d of 2004/Q4	
Consumers Energy Company		(2)	(2) A Resubmission		11	En		
			SUBSTA	TIONS (Continued)			undiant carriages	nt for
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annu of co-owner or other part affected in respondent's	s or major items of e by the respondent. ual rent. For any sul	quipment I For any s bstation or	eased froubstation	om others, jointly or or equipment ope ent operated other t	wned with others rated under lease han by reason of	, or operated on the control of the	otherwise than by of lessor, date and ip or lease, give to amounts and acc	d name ounts
	Number of T	Numbei	r of T	CONVERSI	ON APPARATUS A	AND SPECIAL	EQUIPMENT	Line
Capacity of Substation (In Service) (In MVa)	Number of Transformers In Service	Spare	•  -	Type of Equi		Number of Units		No.
(f)	(g)	(h)		(i)		(j)	(iii (k)	1
(1)	1	<u> </u>						1
20	1							2
60	2							3
13	1							4
13	1							5 6
13	1							7
40	1							8
20	1							9
12	2						+	10
13	1							11
13	2							12
50	4							13
25	2							14
20	2							15
13	1							16
200	2							17
10								18
160								19
10								20
								21
30								22
13								23
25								24
13								25
13								26
13	<u> </u>							27
13								28
13								29
10								30
20								3
50	<del></del>							32
13	3 1							3:
13	3 1							34
10	1							3:
13	3 1							3
19	9 2	2						3
60	2	2						3
							_	4
1:	3							'
1								

	Name of Respondent Consumers Energy Company		Report Is:  X An Original	Date of Report (Mo, Da, Yr)			Report 04/Q4
COIIS	unicia Energy Company	(2)	A Resubmission SUBSTATIONS				
<ol> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li> <li>Signal</li></ol>	eport below the information called for conceubstations which serve only one industrial oubstations with capacities of Less than 10 Notional character, but the number of such sidicate in column (b) the functional characte ided or unattended. At the end of the page, mn (f).	r stree //Va ex substat r of ea	substations of the responde t railway customer should n cept those serving custome ions must be shown. ch substation, designating	ot be listed below. ers with energy for resale, whether transmission or o	, ma distri	ibution and wi	nether
Line				b station	VC	OLTAGE (In MV	/a)
No.	Name and Location of Substation		Character of Su	Primary (c)	'	Secondary (d)	Tertiary (e)
	(a)		(b) Distrib Unattended		5.00	8.32	(0)
	IRON STREET - BURTON TWP		Distrib Unattended		3.00	8.32	
	ISABELLA - UNION TWP		Trans Unattended		3.00	46.00	10.50
	ISLAND ROAD - EATON		Distrib Unattended		3.00	8.32	
	ITHACA - NEWARK TWP		Distrib Unattended		3.00	12.47	
	IVANREST - WYOMING TWP		Distrib Unattended		5.00	12.47	, <u>.</u>
	JACKMAN - BEDFORD TWP		Distrib Unattended		5.00	8.32	
7	JAMES SAVAGE - MIDLAND		Distrib Unattended		8.00	12.47	
8	JAMESTOWN - JAMESTOWN TWP		Distrib Unattended		6.00	8.32	
9			Distrib Unattended		6.00	12.47	
10			Distrib Unattended		6.00	8.32	
11	JUDD ROAD - BURTON TWP		Distrib Unattended		6.00	8.32	
	KALARAMA - PORTAGE TWP		Distrib Unattended		6.00		
	KALKASKA - KALKASKA TWP		Distrib Unattended		6.00		
	KEARSLEY - GENESEE TWP		Distrib Unattended		6.00	12.47	
l	KEATING - MUSKEGON TWP		Distrib Unattended		6.00	12.47	
	KELLOGGSVILLE - WYOMING TWP		Distrib Unattended		6.00		
	KENDALL - KALAMAZOO TWP		Distrib Unattended		8.00		
	KENDRICK - CASCADE TWP		Distrib Unattended		6.00		
<u> </u>	KENT AIRPORT - CASCADE TWP		Distrib Unattended		6.00		
	KIESEL - BANGOR TWP		Distrib Unattended		6.00		
	KILGORE - PORTAGE TWP		Distrib Unattended	·	6.00		
	KINDERHOOK - OVID TWP		Distrib Unattended		6.00		
	KINNEY - WALKER TWP		Distrib Unattended		8.00		
	KIPP ROAD - VEVAY TWP		Distrib Unattended		6.00		
	KNAPP - GRAND RAPIDS		Distrib Unattended		6.00		
	KNIGHT - HAMPTON TWP KOCHVILLE - FRANKENLUST TWP		Distrib Unattended		6.00		
			Distrib Unattended		6.00		
	KOLASSA - BRONSON TWP		Distrib Unattended		8.00		
	KRAFT AVENUE - CASCADE  LABARGE - CALEDONIA TWP		Distrib Unattended		6.00		
	LAFAYETTE - LAFAYETTE		Trans Unattended		8.00		15.2
	LAGRAVE - GRAND RAPIDS TWP		Distrib Unattended		6.00		
			Distrib Unattended	4	6.00	8.32	
	LAINSBURG - SCIOTA TWP  LAKE CITY - REEDER TWP		Distrib Unattended		6.00		
	LAKE LANSING - INGHAM COUNTY		Distrib Unattended		6.00		
			Distrib Unattended		6.00		
	LAMBERTVILLE - BEDFORD TWP		Distrib Unattended		6.00		
	LANDWED FERRYSRIES		Distrib Unattended		6.00		
	LANDWER - FERRYSBURG		Distrib Unattended		6.00		
	LARKIN - MIDLAND TWP  LASALLE - LASALLE TWP		Distrib Unattended		6.00	L	
40	ILASALLE - LASALLE I WF		Distrib Griatterided	'		1	1

					T	
Name of Respondent		This Report Is	: Priginal	Date of Report (Mo, Da, Yr)	Year/Period of End of 20	Report 04/Q4
Consumers Energy Compa	ny	(2) A Re	submission	11	Elid Ol	
			ATIONS (Continued)			.i
<ol> <li>Show in columns (I), (increasing capacity.</li> <li>Designate substations reason of sole ownership period of lease, and anni</li> </ol>	s or major items of e	equipment leased f	rom others, jointly ov on or equipment oper	vned with others, or operated under lease, give	erated otherwise th	nan by nte and
period of lease, and anni of co-owner or other part	uarrenii. For any su vy avolain hasis of s	haring expenses o	or other accounting b	etween the parties, and	state amounts an	d accounts
affected in respondent's	books of account.	Specify in each cas	se whether lessor, co	o-owner, or other party i	s an associated co	mpany.
•						
	Number of	Number of	CONVERSION	ON APPARATUS AND SP	PECIAL FOLLIPMENT	Line
Capacity of Substation	Transformers	Spare	Type of Equip		T = =	
(In Service) (In MVa)	In Service	Transformers		<b> </b>	(In MV	(a)
(f) 23	(g) 2	(h)	(i)	(j)	) (k)	1
25	2					2
60	2					3
13						4
25	2					5
25	2					6
12	1					7
20	1					8
13	1					9
13	1					10
25	2					12
13	1					13
10	1					14
15 25	2					15
25	2					16
13	1					17
40	2					18
25	2					19
13	1					20
20	1					21
10	1					22
10	1					23
30	1					25
20	1					26
13	1					27
13 10						28
100	2					29
14	1					30
80	1					31
40						32
10						33
14	1					34
13	1					35
13	1					36
13						37 38
13						39
25					<u> </u>	40
13	'					

	e of Respondent	This Report Is: Date of F (1) X An Original (Mo, Da,	Report Yr)	Year/Period of	Report 004/Q4
Cons	sumers Energy Company	(2) A Resubmission / /	"	End of 20	JU4/Q4 
		SUBSTATIONS			
2. S 3. S to fur 4. Ir atter	ubstations which serve only one industrial of ubstations with capacities of Less than 10 led nctional character, but the number of such sendicate in column (b) the functional character.	erning substations of the respondent as of the error street railway customer should not be listed by MVa except those serving customers with energon substations must be shown.  For of each substation, designating whether transport, summarize according to function the capacities.	oelow. gy for resale, ma smission or disti	ribution and w	hether
Line		Character of Substation	V	OLTAGE (In M	√a)
No.	Name and Location of Substation (a)	Character of Substation (b)	Primary (c)	Secondary (d)	Tertiary (e)
1	LAWNDALE - SAGINAW	Trans Unattended	138.00	46. <b>OO</b>	21.0
2	LAYTON - MAPLE GROVE	Trans Unattended	138.00	46.00	
3	LEE STREET - WYOMING TWP	Distrib Unattended	46.00	12.47	
4	LEFFINGWELL - GRAND APIDS TWP	Distrib Unattended	46.00	12.47	
5	LEITH STREET - BURTON TWP	Distrib Unattended	46.00	8.32	
6	LENNON ROAD - FLINT TWP	Distrib Unattended	46.00	8.32	
7	LETTS ROAD - LARKIN TWP	Distrib Unattended	138.00	24.90	
8	LEVEL PARK - BEDFORD TWP	Distrib Unattended	46.00	8.32	
9	LEVELY - EDENVILLE TWP	Distrib Unattended	46.00	24.90	
10	LIBERTY - BATTLE CREEK TWP	Distrib Unattended	46.00	8.32	
11	LINDBERGH - OSHTEMO	Trans Unattended	138.00	46.00	15.2
12	LINDEN - FENTON TWP	Distrib Unattended	46.00	8.32	
13	LITCHFIELD - LITCHFIELD TWP	Distrib Unattended	46.00	8.32	
14	LOMBARD - SHERIDAN TWP	Distrib Unattended	46.00	8.32	
15	LONG LAKE - FENTON TWP	Distrib Unattended	46.00	8.32	
16	LOOKING GLASS - WATERTOWN	Trans Unattended	138.00	46.00	
17	LOVEJOY - BURNS TWP	Distrib Unattended	138.00	24.90	
18	LOVELL - KALAMAZOO TWP	Distrib Unattended	46.00		
19	MACATAWA - HOLLAND TWP	Distrib Unattended	46.00	8.32	
20	MACKINAW CITY - MACKINAW TWP	Distrib Unattended	46.00	24.90	
21	MANCHESTER - MANCHESTER TWP	Distrib Unattended	46.00	8.32	
22	MANISTEE - FILER TWP	Distrib Unattended	46.00	12.47	
23	MANLIUS - MANLIUS	Distrib Unattended	138.00	46.00	10.5
24	MAPLE GROVE - FRIUTPORT TWP	Distrib Unattended	46.00	12.47	
25	MARKEY - MARKEY TWP	Distrib Unattended	46.00	8.32	
26	MARQUETTE - EASTON	Trans Unattended	138.00	46.00	7.0
27	MASON - VEVAY TWP	Distrib Unattended	46.00	8.32	
28	MAUMEE - ADRIAN TWP	Distrib Unattended	46.00	12.47	
29	MAYFAIR - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
30	MCBAIN - RICHLAND TWP	Distrib Unattended	46.00	24.90	
31	MCCRACKEN - NORTON TWP	Distrib Unattended	46.00	12.47	
32	MCGULPIN - MACKINAW CITY	Trans Unattended	138.00	46.00	5.2
33	MEADOWBROOKE - CALEDONIA TWP	Distrib Unattended	138.00	12.47	
34	MECOSTA - GREEN	Trans Unattended	138.00	46.00	
35	MENDON - NOTTAWA TWP	Distrib Unattended	46.00	24.90	
36			46.00	8.32	
37	MICHIGAN - CITY OF GRAND RAPIDS	Distrib Unattended	138.00	12.47	
38	MICHIGAN CENTER - SUMMIT TWP	Distrib Unattended	46.00	8.32	
39	MICOR - SUMMIT TWP	Distrib Unattended	46.00	8.32	

46.00

8.32

40 MIDDLEVILLE - THORNAPPLE TWP

		This Report Is:		Date of Report	Year/Period of Repor	t
Name of Respondent	n.,	(1) X An O	riginal	(Mo, Da, Yr)	End of 2004/Q4	
Consumers Energy Compar		1 ' ' <b>-</b>	submission ATIONS (Continued)	11		
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annot co-owner or other part affected in respondent's	s or major items of e by the respondent ual rent. For any su	quipment such as requipment leased for some substation or equipment leases of the station or equipments of the station expense	rotary converters, recommon others, jointly own or equipment operated other the control of the c	ned with others, or operated under lease, give han by reason of sole centween the parties, and	erated otherwise than by name of lessor, date ar wnership or lease, give d state amounts and acc	y nd name counts
	N of	Number of	CONVERSION	ON APPARATUS AND SF	DECIAL FOLIDMENT	11:
Capacity of Substation	Number of Transformers	Spare	Type of Equip	·		Line No.
(In Service) (In MVa)	In Service	Transformers			(In MVa)	
(f)	(g)	(h)	(i)	Ü	) (k)	1
160	2					2
30	2					3
25 25	2					4
22	3					5
33	3					6
23	2					7
12	1					8
13	1					9
16	2					10
100	1					11
13	1					12
13	1					13
14	1					14
14	1					15
60	1					16 17
10	1					17
28	4					19
13						20
13	1					21
13	11					22
20						23
38						24
25						25
10 40						26
13						27
13						28
30						29
11						30
24						31
30						32
32						33
60						34
23						35
						36
20	1					37
13	1					38
13	1					39
13	1					40
1					<u> </u>	

	e of Respondent	This Report Is: [ (1) X An Original (	Date of Report (Mo, Da, Yr)	Year/Period of End of 20	Report 004/Q4
Cons	sumers Energy Company	(2) A Resubmission	11	End 01	<del></del>
		SUBSTATIONS			
2. S 3. S to fu 4. Ir atter	teport below the information called for concesubstations which serve only one industrial of ubstations with capacities of Less than 10 Nonctional character, but the number of such standards in column (b) the functional characte inded or unattended. At the end of the page, mn (f).	r street railway customer should not be IVa except those serving customers wit substations must be shown. r of each substation, designating wheth	listed below. th energy for resale, ma er transmission or disti	ribution and w	hether
Line	Name and Legation of Substation	Character of Substation		OLTAGE (In M\	√a)
No.	Name and Location of Substation (a)	Character of Substation (b)	Primary (c)	Secondary (d)	Tertiary (e)
1	MIDLAND - MIDLAND TWP	Distrib Unattended	46.00	8.32	
2	MIDWAY - GUN PLAIN TWP	Distrib Unattended	46.00	8.32	
3	MILES ROAD - SOUTH ARM	Trans Unattended	138.00	46.00	7.60
4	MILHAM - PORTAGE	Trans Unattended	138.00	46.00	15.00
5	MILL GROVE - ALLEGAN TWP	Distrib Unattended	46.00	24.90	
6	MILLER ROAD - FLINT TWP	Distrib Unattended	46.00	8.32	
7	MILLERS POINT - KALAMAZOO TWP	Distrib Unattended	138.00	8.32	
8	MILTON - BIG RAPIDS TWP	Distrib Unattended	46.00	12.47	
9	MIO DAM - BIG CREEK TWP	Trans Unattended	138.00	2.50	
10			2.50	12.00	
11			2.50	4.80	
12	MOLINE - DORR TWP	Distrib Unattended	46.00	8.32	
13	MONA LAKE - FRUITPORT TWP	Distrib Unattended	46.00	12.47	
14	MONITOR - MONITOR	Trans Unattended	138.00	46.00	
15	MONTROSE - MONTROSE TWP	Distrib Unattended	46.00	8.32	
16	MOORE ROAD - FAYETTE	Trans Unattended	138.00	46.00	
17	MORGAN - PENNFIELD TWP	Distrib Unattended	46.00	8.32	
18	MORLEY - BUENA VISTA TWP	Distrib Unattended	46.00		
19	MORRELL - SUMMIT	Distrib Unattended	46.00	8.32	
20	MORROW - MORROW	Trans Unattended	138.00	46.00	7.5
21	MT MORRIS - MT MORRIS TWP	Distrib Unattended	46.00	8.32	
22	MT PLEASANT - UNION TWP	Distrib Unattended	46.00	8.32	
23	MULLINS - WALKER TWP	Distrib Unattended	138.00	12. <b>4</b> 7	
24	MUSKEGON HEIGHTS - MUSKEGON TWP	Distrib Unattended	138.00		21.0
25			138.00	12.47	
26	NEFF ROAD - THETFORD TWP	Distrib Unattended	138.00	24.90	
27	NEWBURG - VERNON TWP	Distrib Unattended	46.00	24.90	
28	NIAGARA - SAGINAW TWP	Distrib Unattended	46.00	8.32	
29	NINETEEN - GREEN TWP	Distrib Unattended	138.00	12.47	
30	NORTH BELDING - OTISCO	Trans Unattended	138.00	46.00	7.60
31	NORTH CORUNNA - CALEDONIA TWP	Distrib Unattended	138.00	8.32	ļ
32	NORTH KENT - PLAINFIELD TWP	Distrib Unattended	46.00	12.47	
33	NORTH LANSING - DEWITT TWP	Distrib Unattended	46.00	8.32	
34	NORTH MUSKEGON - MUSKEGON TWP	Distrib Unattended	46.00	12.47	
35	NORTH PARK - GRAND RAPIDS TWP	Distrib Unattended	46.00		
36	NORTHERN FIBRE - OLIVE TWP	Distrib Unattended	138.00		
37	NORTON - FRUITPORT TWP	Distrib Unattended	46.00		
38	OAK STREET - BLACKMAN TWP	Distrib Unattended	46.00		
39	OAKLAND - HOLLY TWP	Trans Unattended	138.00	46.00	l 7.50

46.00

8.32

40 OAKWOOD - KALAMAZOO TWP

					T	<del> </del>
Name of Respondent		This Report I	s: Original	Date of Report (Mo, Da, Yr)	Year/Period of Repo End of 2004/Q	
Consumers Energy Compa	ny	(2) AR	esubmission	`i i	EIIU 01	
			TATIONS (Continued)			ant for
5. Show in columns (I),	(j), and (k) special e	quipment such as	s rotary converters, rec	ctifiers, condensers, etc	and auxiliary equipm	ent for
increasing capacity. 6. Designate substation:	s or major items of e	equipment leased	from others, jointly ov	vned with others, or ope	erated otherwise than t	γ
reason of sole ownership	by the respondent.	For any substati	ion or equipment oper	rated under lease, give	name of lessor, date a	nd
period of lease, and ann	ual rent. For anv su	bstation or equipr	ment operated other the	han by reason of sole o	ownership or lease, give	name
of co-owner or other part	y, explain basis of s	haring expenses	or other accounting b	etween the parties, and	I state amounts and ac	counts
affected in respondent's	books of account.	specity in each ca	ase whether lessor, co	o-owner, or other party i	s an associated compa	nıy.
Capacity of Substation	Number of	Number of	CONVERSION	ON APPARATUS AND SP	'ECIAL EQUIPMENT	Line
(In Service) (In MVa)	Transformers In Service	Spare Transformers	Type of Equip	pment Number	of Units Total Capacity	No.
(f)	(g)	(h)	(i)	(i)	(In MVa) (k)	
13	1					1
13	1					2
30	1					3
60	1					4
10	1					5
13	1			í .		6
40	2					8
14	1					9
18	5					10
						11
13	1					12
13						13
68	2					14
11	2					15
160	2					16
13	1					17
10	1					18
13	1					19
130	3					20
13	1					21
13	1					22
20	1					23
160	3					24
						25 26
13	1					27
11	1					28
13	1					29
13	1					30
30	1					31
13	3					32
31 10	1					33
20	1	· · · · · · · · · · · · · · · · · · ·				34
20	1					35
13	1					36
10	1					37
18	2					38
30	1					39
13	1					40

Nam	e of Respondent	This Report Is: Date of F (1) X An Original (Mo, Da,	Report Yr)	Year/Period of	f Report 004/Q4
Con	sumers Energy Company	(2) A Resubmission //	,	End of2	J04/Q4 ————
		SUBSTATIONS			
2. S 3. S to fu 4. In atter	substations which serve only one industrial of the stations with capacities of Less than 10 nctional character, but the number of such adicate in column (b) the functional character.	erning substations of the respondent as of the e or street railway customer should not be listed b MVa except those serving customers with energ substations must be shown. er of each substation, designating whether trans , summarize according to function the capacitie	elow. ly for resale, ma mission or disti	ribution and w	hether
Line		Observation of Culturation	V	OLTAGE (In M	
No.	Name and Location of Substation (a)	Character of Substation (b)	Primary (c)	Secondary (d)	Tertiary (e)
1		Distrib Unattended	46.00	24.90	
2	OGEMAW - WEST BRANCH	Trans Unattended	138.00	46.00	5.2
3	OHMAN ROAD - EVART TWP	Distrib Unattended	138.00	24.90	
4	OLIVER - OWOSSO TWP	Distrib Unattended	46.00	8.32	
5	ORCHARD ROAD - MIDLAND TWP	Distrib Unattended	46.00	8.32	
6		Distrib Unattended	46.00	24.90	
7	OTISVILLE - FOREST TWP	Distrib Unattended	46.00	8.32	
- 8	OTTAWA BEACH - PARK TWP	Distrib Unattended	46.00	8.32	
9		Distrib Unattended	6.00	8.32	
10		Distrib Unattended	138.00	46.00	15.2
11			46.00	8.32	
	PAGE AVENUE - LEONI	Trans Unattended	140.00	46.00	15.0
	PALMER - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
	PARKWAY - KALAMAZOO TWP	Distrib Unattended	46.00	8.32	
	PARNALL - BLACKMAN TWP	Distrib Unattended	46.00	8.32	
	PARR ROAD - MANCHESTER	Trans Unattended	138.00		10.5
17	PASADENA - FLINT TWP	Distrib Unattended	138.00	46.00	4.8
18			46.00	8.32	
	PATTERSON - BANGOR TWP	Distrib Unattended	46.00	8.32	
	PAVILION - PAVILION TWP	Distrib Unattended	138.00		
	PEACOCK - BATH TWP	Distrib Unattended	46.00	8.32	
	PECK ROAD - MONTCALM TWP	Distrib Unattended	46.00		
	PERRY - PERRY TWP	Distrib Unattended	46.00		
	PETTIS ROAD - ADA TWP	Distrib Unattended	138.00	24.90	
	PHILLIPS - KALAMAZOO TWP	Distrib Unattended	46.00		
	PIGEON LAKE - PORT SHELDON TWP	Distrib Unattended	46.00	8.32	
	PINE RIVER - ARCADA TWP	Distrib Unattended	46.00		
	PISTON RING - SPARTA TWP	Distrib Unattended	138.00	12.47	
29			46.00		
	PITCHER - KALAMAZOO TWP	Distrib Unattended	46.00		
	PLAINFIELD - PLAINFIELD TWP	Distrib Unattended	46.00		
	PLAINWELL - GUN PLAIN TWP	Distrib Unattended	46.00		
	PORT CALCITE - ROGERS TWP	Distrib Unattended	138.00		-
	PORT SHELDON - PORT SHELDON	Trans Unattended	138.00		7.5
	PORTAGE - PORTAGE TWP	Distrib Unattended	46.00		
	PORTER - GRAND BLANC TWP	Distrib Unattended	138.00		
	PORTSMOUTH - BLUMFIELD TWP	Distrib Unattended	138.00		
	POTTER - SAGINAW TWP	Distrib Unattended	46.00		
	POTTERVILLE - BENTON TWP	Distrib Unattended	46.00		
UJ		, Distrib Chatteriaca	, <del>,</del> ,,,,,,	,	

46.00

8.32

40 QUINCY - QUINCY TWP

Name of Respondent		This Report Is:	iginal	Date of Report (Mo, Da, Yr)	Year/Period of Repor	
Consumers Energy Compar	ny	(1) X An Or (2) A Res	submission	/ /	End of	
		SUBSTA	ATIONS (Continued)			
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annuof co-owner or other part affected in respondent's	s or major items of e by the respondent. ual rent. For any sul	quipment such as requipment leased free For any substation or equipment having expenses of	otary converters, recommonders, jointly over a common or equipment operent operated other the cother accounting the common of th	vned with others, or operated under lease, give han by reason of sole of tween the parties, and	erated otherwise than b name of lessor, date ar wnership or lease, give d state amounts and acc	y nd name counts
	Number of	Number of	CONVERSI	ON APPARATUS AND SF	PECIAL EQUIPMENT	Line
Capacity of Substation	Number of Transformers	Spare	Type of Equip			
(In Service) (In MVa)	In Service	Transformers	•		(In MVa)	
(f)	(g)	(h)	(i)	Ü	) (k)	1
10	1					2
15	1					3
13	1					4
13	1					5
20	2					6
25	2					7
13	1					8
13	11					9
13	1					10
125	3					11
00	1					12
60	2					13
25	2					14
25 20	2					15
40						16
113	3					17
113						18
13	1					19
20	1					20
14	1					21
13	1					22
13	1					23
13						24
25						25
13						26
13						27
30						28
						29
11	2					30
13	1					31
13	1					32
20	2					34
50	1					35
25	5 2					36
13	1					37
10	1					38
40	2					39
13	3 1					40
13	1					1
1	1	1				

	e of Respondent	(1) X An Original (Mo, I	of Report Da, Yr)	Year/Period of End of 20	Report 004/Q4
Cons	sumers Energy Company	(2) A Resubmission / /			
		SUBSTATIONS			
2. S 3. S to fur 4. In atter	eport below the information called for conce ubstations which serve only one industrial or ubstations with capacities of Less than 10 M nctional character, but the number of such sudicate in column (b) the functional character inded or unattended. At the end of the page, mn (f).	or street railway customer should not be listed.  MVa except those serving customers with ensubstations must be shown.  For of each substation, designating whether training the street of each substation.	d below. ergy for resale, ma ansmission or disti	ribution and <b>w</b> l	hether
Line			V	OLTAGE (In M\	/a)
No.	Name and Location of Substation	Character of Substation	Primary	Secondary	Tertiary
	(a)	(b)	(c)	(d)	(e)
1	RACE STREET - GRAND RAPIDS	Trans Unattended	138.00		16.00
2	RAISIN - RAISIN	Trans Unattended	138.00		10.50
3	RAMONA - GRAND RAPIDS TWP	Distrib Unattended	46.00		
4	RANKIN - MUNDY TWP	Distrib Unattended	46.00		<u></u>
5	RANSOM - JAMESTOWN	Trans Unattended	138.00	L	15.00
6	RAVENNA - RAVENNA TWP	Distrin Unattended	46.00		
7			46.00		
8	RAVINE - KALAMAZOO TWP	Distrib Unattended	46.00		
	RED ARROW - BURTON TWP	Distrib Unattended	46.00		
	REED CITY - ALGOMA TWP	Distrib Unattended	46.00		
11	REMUS - WHEATLAND TWP	Distrib Unattended	46.00		40.54
12	RICE CREEK - SHERIAN	Trans Unattended	138.00		10.50
	RIGGSVILLE - IVERNESS	Trans Unattended	138.00		5.25
	RIVERTOWN - CITY OF GRANDVILLE	Distrib Unattended	138.00		45.00
	RIVERVIEW - RIVERVIEW	Trans Unattended	138.00		15.20
16	RIX ROAD - OSHTEMO TWP	Distrib Unattended	46.00		
17	ROBERTS STREET - BLACKMAN	Distrib Unattended	46.00		
	ROCKFORD - ALGOMA TWP	Distrib Unattended	46.00		
19			46.00		
	RODNEY - COLFAX TWP	Distrib Unattended	46.00		
21	ROEDEL ROAD - FRANKENMUTH TWP	Distrib Unattended	138.00		
	ROSEWOOD - GEORGETOWN TWP	Distrib Unattended	46.00		
	RUSSELLVILLE - RICHFIELD TWP	Distrib Unattended	46.00		
	RUTLAND - RUTLAND TWP	Distrib Unattended	46.00		
25	SAGINAW RIVER - ZILWAUKEE	Trans Unattended	138.00		
26			138.00		
	SAGINAW STREET - BURTON TWP	Distrib Unattended	46.00		
	SALEM - SALEM TWP	Distrib Unattended	46.00		
	SAMARIA - BEDFORD	Trans Unattended	138.00		
	SANDERSON - EUREKA TWP	Distrib Unattended	138.00		
	SANFORD DAM - JEROME TWP	Distrib Unattended	46.00		
32	And the second s		46.00		
	SARANAC - BOSTON TWP	Distrib Unattended	46.00		
	SAUGATUCK - SAUGATUCK TWP	Distrib Unattended	46.00		
	SAVIDGE - SPRING LAKE TWP	Distrib Unattended	138.00		
	SCOTT LAKE - LEE	Trans Unattended	138.00		
	SEIDEL - SAGINAW TWP	Distrib Unattended	46.00		
	SHAFFER - PARIS TWP	Distrib Unattended	46.00		
	SHATTUCK - SAGINAW TWP	Distrib Unattended	46.00		
40	SHIELDS - SWAN CREEK TWP	Distrib Unattended	46.00	8.32	1

Name of Respondent		This Report (1) X An	ls: Original	Date of Report (Mo, Da, Yr)	Year/Period of Re	
Consumers Energy Compar	ny		Resubmission	11	End of	
			STATIONS (Continued)			
<ol> <li>Show in columns (I), (increasing capacity.</li> <li>Designate substations reason of sole ownership period of lease, and annuof co-owner or other part affected in respondent's</li> </ol>	s or major items of e by the respondent. ual rent. For any su	quipment leased For any substat bstation or equip haring expenses	from others, jointly or tion or equipment ope ment operated other to or other accounting b	wned with others, or operated under lease, give than by reason of sole operween the parties, and	erated otherwise tha name of lessor, date ownership or lease, g d state amounts and	in by e and give name accounts
	Number of	Number of	CONVERSI	ON APPARATUS AND SF	PECIAL EQUIPMENT	Line
Capacity of Substation (In Service) (In MVa)	Transformers	Spare	Type of Equi		of Units Total Capa	city No.
	In Service	Transformers (h)	(i)	· (i)	(ln MVa)	)
(f) 100	(g)	(11)			,	1
30	1					2
20	1					3
13	1					4
100	1					5
13	2					6
						7
13	1				·	8
27	2					9
18	2					10
12	2					11
40	1					12
30	2					13
32	2					14
200	2					15
10	2					16
20	1					17
33	2					18
						19
13	1					20
13	1					21
25	2					22
13	1					23
13	1					24
68	2					25 26
						27
40	2					28
13		-				29
78	2					30
14						31
13	2					32
						33
11	3					34
19						35
13						36
40						37
13						38
57						39
20						40
10	1					

Name	of Respondent	This I	Report Is:  [X] An Original	Date of Report (Mo, Da, Yr)	<u> </u>	Year/Period of	•
Cons	umers Energy Company	(1)	A Resubmission	(IVIO, Da, 11)		End of	04/Q4
			SUBSTATIONS		-		
2. Si 3. Si to fur 4. In atten	eport below the information called for concerning the low the information called for concerning the low the lo	r stree IVa ex ubstati r of ea	t railway customer should i cept those serving customi ions must be shown. ch substation, designating	not be listed below. ers with energy for resale whether transmission or o	, ma	ibution and wl	hether
Line			Character of C	hototion	V	OLTAGE (In MV	/a)
No.	Name and Location of Substation		Character of S	Primary	<i>'</i>	Secondary	Tertiary
	(a)		(b)	(c)	- 00	(d) 12. <b>4</b> 7	(e)
	SILVER LAKE - GARFIELD TWP		Distrib Unattended		5.00		
	SIMMONS - WEST BRANCH TWP		Distrib Unattended		3.00	24.90	10.50
	SIMPSON - MENDON		Trans Unattended		3.00	46.00	10.50
	SKYLARK - GRAND BLANC TWP	,	Distrib Unattended		3.00	8.32	
	SLOAN - FLINT TWP		Distrib Unattended		3.00	8.32	
	SOLVAY - MADISON TWP		Distrib Unattended		3.00	24.90	
	SOUTH WASHINGTON AY - SAGINAW TWP		Distrib Unattended		5.00	8.32	
	SPAULDING - ADA		Trans Unattended		3.00	46.00	15.00
9	SPRING ARBOR - SPRING ARBOR TWP		Distrib Unattended		3.00	8.32	
10	SPRING DRIVE - BROOKS TWP		Distrib Unattended		6.00	24.90	
11	SPRINGFIELD - BATTLE CREEK TWP		Distrib Unattended		5.00	8.32	
	SPRINKLE - PORTAGE TWP		Distrib Unattended		6.00		
	SQUIRE HILL - CLAYTON TWP		Distrib Unattended		6.00		
14	ST JOHNS - BINGHAM TWP		Distrib Unattended		6.00	8.32	
15	STACEY - FLINT TWP		Distrib Unattended		8.00	24.90	
16	STANDALE - WALKER TWP		Distrib Unattended		6.00	12.47	
17	STANDISH - LINCOLN TWP		Distrib Unattended		6.00		
18	STANLEY - MT MORRIS TWP		Distrib Unattended	4	6.00		
19	STATE STREET - SAGINAW TWP		Distrib Unattended		6.00		
20	STEEL DRIVE - FENTON TWP		Distrib Unattended	4	6.00	8.32	
21	STERNS ROAD - ERIE TWP		Distrib Unattended	4	6.00	12. <b>47</b>	
22	STEVENS - WYOMING TWP		Distrib Unattended	4	6.00	12.47	
23	STOCKBRIDGE - STOCKBRIDGE TWP		Distrib Unattended	4	6.00	8.32	
24	STONEGATE - GRAND RAPIDS TWP		Distrib Unattended	13	8.00	12.47	
25	STOVER - STOVER		Trans Unattended	13	8.00	46.00	5.25
26	STRAITS PLANT - WAWATAM		Trans Unattended	4	6.00	13.80	
27	STRONACH - STRONACH		Trans Unattended	13	8.00	46.00	7.59
28	SUMMERTON - CHIPPEWA		Trans Unattended	13	8.00	46.00	7.60
29	SUMMIT - SUMMIT TWP		Distrib Unattended	4	6.00	8.32	
30	SWARTZ CREEK - CLAYTON TWP		Distrib Unattended	4	6.00	8.32	
31	SYLVAN - SYLVAN TWP		Distrib Unattended	4	6.00	8.32	
	TALLMAN - EAGLE TWP		Distrib Unattended	13	8.00	24.90	
	TANIUM - MONTAGUE TWP		Distrib Unattended	4	6.00	12.47	
34	TECUMSEH - TECUMSEH TWP		Distrib Unattended	4	6.00	12.47	
	TEFT - SWAN CREEK TWP		Distrib Unattended	4	6.00	8.32	
	TEMPERANCE - BEDFORD TWP		Distrib Unattended	4	6.00	12.47	
	TERRACE - MUSKEGON TWP		Distrib Unattended	4	6.00	12.47	
	THOMAS - THOMAS TWP		Distrib Unattended	4	6.00	8.32	
	THORNAPPLE - ADA TWP		Distrib Unattended	4	6.00	8.32	
	TIHART - MERIDIAN		Trans Unattended	14	0.00	48.00	
70	THE WALL THE COUNTY				_		İ

		This Deport is		Date of Report	Vos	r/Period of Report	,
Name of Respondent		This Report Is (1) X An O	riginal	(Mo, Da, Yr)	End		
Consumers Energy Compar	ny		submission ATIONS (Continued)	11			
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annu	s or major items of e	quipment such as	rotary converters, rec from others, jointly over	vned with others, orated under lease,	or operated ot give name of	herwise than by lessor, date an	/ d
period of lease, and anni of co-owner or other part affected in respondent's	v explain basis of s	haring expenses (	or other accounting b	etween the parties	s, and state ar	nounts and acc	Ounts
Capacity of Substation	Number of	Number of	CONVERSION	ON APPARATUS A	ND SPECIAL E	QUIPMENT	Line
(In Service) (In MVa)	Transformers In Service	Spare Transformers	Type of Equi	pment Nu	mber of Units	Total Capacity (In MVa)	No.
(f)	(g)	(h)	(i)		(j)	(k)	1
13 13	1						2
38					,		3
25	2						4
13	1						5
13	1						6
13	1						7
100	1						8
10	1						9
13	1						11
10	1						12
25	2						13
10	11						14
13	2						15
25	2						16
10	1						17
13	1						18
13	1					·	19
13	2						20
14	1						21
13	2						22
14	1						23 24
45							25
50							26
25							27
30							28
70							29
13							30
13							31
11							32
13							33
18							34
10							35
13	1						36
10	1						37
13							38
13							40
90	2						

	of Respondent	(1)	Report Is: X An Original	Date of Report (Mo, Da, Yr)	Year/Period of 2	of Report 2004/Q4
Cons	umers Energy Company	(2)	A Resubmission	11		
			SUBSTATIONS			
<ol> <li>Sector for further strength</li> <li>In attention</li> </ol>	eport below the information called for conceubstations which serve only one industrial cubstations with capacities of Less than 10 Monctional character, but the number of such sidicate in column (b) the functional characted ded or unattended. At the end of the page mn (f).	or stree MVa ex substat	at railway customer should not acept those serving customer tions must be shown.	of be listed below. s with energy for resale, hether transmission or d	may be groupe	vhether
					VOLTAGE (In N	IVa)
Line No.	Name and Location of Substation		Character of Sub	estation Primary	Secondary	Tertiary
110.	(a)		(b)	(c)	(d)	(e)
1	(4)			138	.00 46.OC	7.59
2	TINSMAN - HOLLY TWP		Distrib Unattended	138	.00 8.32	2
	TIPPY HYDRO - DICKSON TWP		Trans Unattended	150	.00 7.50	
4	TITUS LAKE - WAYLAND TWP		Distrib Unattended	138	.00 8.32	2
	TROWBRIDGE - TROWBRIDGE		Trans Unattended	138	.00 46.00	5.2
6	TUCKER - HOLLY TWP		Distrib Unattended	46	.00 8.32	2
7	TWELFTH STREET - PORTAGE		Distrib Unattended	138	.00 8.32	2
8	TWILIGHT - COMSTOCK TWP		Distrib Unattended	138	.00 8.32	2
9	TWINING - TWINING		Trans Unattended	138	.00 46. <b>O</b> 0	ס
10	ULMER - BIRCH RUN TWP		Distrib Unattended	46	.00 8.32	2
11			Distrib Unattended	46	.00 8.32	2
12	VAN ATTA - MERIDIAN TWP		Distrib Unattended	138	.00 8.32	2
	VANDERCOOK LAKE - SUMMIT TWP		Distrib Unattended	46	8.32	2
	VERONA - PENNFIELD		Trans Unattended	138	46.00	15.2
15	VEVAY - VEVAY TWP		Trans Unattended	138	3.00 46.O	7.6
	VILLAGE GREEN - PORTAGE TWP		Distrib Unattended	46	8.3	2
17	VIRGINIA PARK - LAKETOWN TWP		Distrib Unattended	46	8.3	2
18			Trans Unattended	138	3.00 46.O	0 15.0
	WACKERLY - WACKERLY		Trans Unattended	138	3.00 46.O	0 10.5
	WAGER - GENESEE TWP		Distrib Unattended	46	8.3	2
21			Distrib Unattended	46	8.3	2
	WALKER - WALKER TWP		Distrib Unattended	46	5.00 12.4	7
	WALLACE - KALAMAZOO TWP		Distrib Unattended	46	3.00 13.8	0
L	WALNUT - BURTON TWP		Distrib Unattended	46	8.3	2
	WARNER - PRAIREVILLE TWP		Distrib Unattended	138	3.00 24.9	0
	WARREN - WARREN TWP		Trans Unattended	138	3.00 46.O	0 10.5
	WASHINGTON - PERE MARQUETT TWP		Distrib Unattended	46	5.00 12.4	7
28				46	8.3	2
	WASHTENAW - CHELSEA		Trans Unattended	138	3.00 46.0	0 7.5
	WATKINS - BATTLE CREEK TWP		Distrib Unattended	46	5.00 8.3	2
	WAYLAND - WAYLAND TWP	·	Distrib Unattended	138	3.00 48.0	0 5.2
32				46	5.00 8.3	2
	WEADOCK J C PLANT - WEADOCK J C		Trans Attended	138	3.00 46.0	00 7.5
34			Trans Unattended	138	3.00 46.C	0
35				138	3.00 12.4	7
	WEBSTER - MT MORRIS TWP		Distrib Unattended	46	5.00 8.3	32
	WEST RIVER - GRAND RAPIDS TWP		Distrib Unattended	46	5.00 12.4	17
	WEST ROAD - LANSING TWP		Distrib Unattended	46	3.00 8.3	32
	WESTERN AVENUE - LAKETON TWP		Distrib Unattended	46	6.00 12.4	17
	WESTERVELT - ZILWAUKEE TWP		Distrib Unattended	46	6.00 8.3	32

Name of Respondent		This Report Is:	ginal	Date of Report (Mo, Da, Yr)	Year/Perio	od of Report 2004/Q4
Consumers Energy Compa	ny	(2) A Resu	ubmission	<u> </u>	End of	
			TIONS (Continued)			
5. Show in columns (I), of increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annof co-owner or other part affected in respondent's	s or major items of e by the respondent. ual rent. For any su ty, explain basis of s	equipment leased fro For any substation bstation or equipment tharing expenses or	om others, jointly over or equipment oper nt operated other to other accounting b	vned with others, or o rated under lease, giv han by reason of sole etween the parties, ar	perated otherwi e name of lesso ownership or le nd state amoun	ise than by or, date and ease, give name ts and accounts
	Number of	Number of	CONVERSION	ON APPARATUS AND S	SPECIAL FOLIPA	MENT Line
Capacity of Substation (In Service) (In MVa)	Transformers	Spare —	Type of Equip			al Capacity No.
	In Service	Transformers		i	(i) (I	In MVa)
(f)	(g)	(h)	(i)		<u>u)                                    </u>	1
13	1					2
15	1					3
13	1					4
20	1					5
13	1					6
13	1					7
12	1					8
30	4					9
13	1					10
13	1					11
12	1					13
13	11					13
200	2					15
40 25	2					16
13	2					17
60	1					18
67	2					19
13	1					20
13	1		,			21
20	1					22
20	1					23
18	2					24
11	1					25
30	1					26
16	6					27 28
						29
30	1					30
25	2					31
33	2					32
200	2					33
200	9					34
220						35
10	1		2			36
13						37
10						38
35	3					39
13	1					40

1	of Report
Report below the information called for concerning substations of the respondent as of the end of the year.	2004/Q4
2. Substations which serve only one industrial or street railway outsomer should not be listed below.           3. Substations with capacities of Less than 10 MV except those serving outsomers with energy for resale, may be grouped on functional character of such substations must be shown.         4. Indicate in column (b) the functional character of each substation, designating whether transmission or distribution and whattended or unattended. At the end of the page, summarize according to function the capacities reported for the individual streoturum (f).           Line No.         Name and Location of Substation (e)         Character of Substation (D)         Primary Secondary (c)         9. WCFAGE (In MVs.)           1 WESTWOOD - BLACKMAN         Distrib Unattended         46.00         8.32           2 WEXFORD - HARING         Trans Unattended         146.00         46.00           3 WHITELEKE - MONTAGUE         Trans Unattended         146.00         46.00           4 WHITELAKE - MONTAGUE TWP         Distrib Unattended         46.00         12.47           7         46.00         8.32           8 WHITING JR PLANT - LUNA PIER         Trans Attended         138.00         46.00           9 WILDWOOD - BLACKMAN TWP         Distrib Unattended         46.00         8.32           10 WILLARD - BIRCH RIUN         Trans Attended         138.00         46.00         8.32           11 WILLIARD - BLACKMAN TWP         Distrib Unattended	
Name and Location of Substation	vhether
No.   (a)	IVa)
WESTWOOD - BLACKMAN   Distrib Unattended   46.00   6.32	Tertiary (e)
WEXTORD - HARING	
WHITE LAKE - MONTAGUE	
WHITE LAKE - MONTAGUE	
138.00	<del></del>
6 WHITEHALL - MONTAGUE TWP         Distrib Unattended         46.00         12.47           7 7         Total Action of the control	
WHITING JR PLANT - LUNA PIER	<u> </u>
8 WHITING J R PLANT - LUNA PIER         Trans Attended         138.00         46.00           9 WILDWOOD - BLACKMAN TWP         Distrib Unattended         46.00         8.32           10 WILLARD - BIRCH RUN         Trans Unattended         138.00         46.00           11 WILLARD - BIRCH RUN         Distrib Unattended         46.00         8.32           12 WILMOTT - OSTEGO TWO         Distrib Unattended         46.00         8.32           13 WISNER - BLACKMAN TWP         Distrib Unattended         46.00         8.32           14 WOOD STREET - FLINT TWP         Distrib Unattended         46.00         8.32           15 WYOMING PARK - WYOMING TWP         Distrib Unattended         46.00         12.47           16         Image: Busstations Serving RESALE CUSTOMERS         Image: Busstations Serving RESALE CUSTOMER RESALE Distrib Unatt         46.00         12.47           22         PROGRESS STREET - ALPENA         Resale Distrib Unatt         46.00         12.47 <t< td=""><td></td></t<>	
9 WILDWOOD - BLACKMAN TWP Distrib Unattended 46.00 8.32 10 WILLARD - BIRCH RUN Trans Unattended 138.00 46.00 11 WILLIAMS - ALLEGAN TWP Distrib Unattended 46.00 8.32 12 WILMOTT - OSTEGO TWO Distrib Unattended 46.00 8.32 13 WISNER - BLACKMAN TWP Distrib Unattended 46.00 8.32 14 WOOD STREET - FLINT TWP Distrib Unattended 46.00 8.32 15 WYOMING PARK - WYOMING TWP Distrib Unattended 46.00 12.47 16 17 18 SUBSTATIONS SERVING RESALE CUSTOMERS 19 CHELSEA - CHELSEA Resale Distrib Unatt 46.00 8.32 12 EATON RAPIDS Resale Distrib Unatt 46.00 8.32 12 EATON RAPIDS ARBIDS - EATON RAPIDS Resale Distrib Unatt 46.00 12.47 13 ST LOUIS - ST LOUIS Resale Distrib Unatt 138.00 12.47 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
10 WILLIARD - BIRCH RUN	
11 WILLIAMS - ALLEGAN TWP	
WILLIAMOTT - OSTEGO TWO	
NUMBER - BLACKMAN TWP	
WOOD STREET - FLINT TWP	
15 WYOMING PARK - WYOMING TWP Distrib Unattended 46.00 12.47 16	2
16	7
17	
18         SUBSTATIONS SERVING RESALE CUSTOMERS           19         CHELSEA - CHELSEA         Resale Distrib Unatt         46.00         8.32           20         EATON RAPIDS - EATON RAPIDS         Resale Distrib Unatt         46.00         12.47           21         EATON RAPIDS MUNICIPAL - EATON RAPIDS         Resale Distrib Unatt         138.00         12.47           22         PROGRESS STREET - ALPENA         Resale Distrib Unatt         46.00         8.32           24         ST LOUIS - ST LOUIS         Resale Distrib Unatt         46.00         4.16           25         Graph of the Company of the Compa	
19 CHELSEA - CHELSEA       Resale Distrib Unatt       46.00       8.32         20 EATON RAPIDS - EATON RAPIDS       Resale Distrib Unatt       46.00       8.32         21 EATON RAPIDS MUNICIPAL - EATON RAPIDS       Resale Distrib Unatt       46.00       12.47         22 PROGRESS STREET - ALPENA       Resale Distrib Unatt       138.00       12.47         23 ST LOUIS - ST LOUIS       Resale Distrib Unatt       46.00       8.32         24       —       46.00       4.16         25       —       —       46.00       4.16         25       —       —       —         26       —       —       —       —         27 SUMMARY INFORMATION       —       —       —         28       —       —       —       —         30       —       —       —       —         30       —       —       —       —         31       SUBSTATIONS GREATER THAN 10,000 KVa       533       —       —         32       —       —       —       —         33       SUBSTATIONS LESS THAN 10,000 KVa       266       —       —         34       —       —       —       —         3	
20       EATON RAPIDS - EATON RAPIDS       Resale Distrib Unatt       46.00       8.32         21       EATON RAPIDS MUNICIPAL - EATON RAPIDS       Resale Distrib Unatt       46.00       12.47         22       PROGRESS STREET - ALPENA       Resale Distrib Unatt       138.00       12.47         23       ST LOUIS - ST LOUIS       Resale Distrib Unatt       46.00       8.32         24       Resale Distrib Unatt       46.00       4.16         25       SUMMARY INFORMATION       46.00       4.16         28       SUBSTAIONS GREATER THAN 10,000 KVa       533       533         30       SUBSTATIONS SERVING ONE CUSTOMER       234       234         32       SUBSTATIONS LESS THAN 10,000KVa       266       34         34       SUBSTATIONS LESS THAN 10,000KVa       266       34         35       SUBSTATIONS LESS THAN 10,000KVa       266       36         36       SUBSTATIONS LESS THAN 10,000KVa       266       37         37       SUBSTATIONS LESS THAN 10,000KVa       260       37         38       SUBSTATIONS LESS THAN 10,000KVa       260       37	2
22 PROGRESS STREET - ALPENA       Resale Distrib Unatt       138.00       12.47         23 ST LOUIS - ST LOUIS       Resale Distrib Unatt       46.00       8.32         24       46.00       4.16         25       5       5         26       5       5         27 SUMMARY INFORMATION       533       5         29 SUBSTAIONS GREATER THAN 10,000 KVa       533       533         30       533       5         31 SUBSTATIONS SERVING ONE CUSTOMER       234       534         32       53       53         33 SUBSTATIONS LESS THAN 10,000KVa       266       53         34       53       53         35       53       53         36       53       53         37       53       53         38       53       53	2
22 PROGRESS STREET - ALPENA       Resale Distrib Unatt       138.00       12.47         23 ST LOUIS - ST LOUIS       Resale Distrib Unatt       46.00       8.32         24       46.00       4.16         25       5       6       6         27 SUMMARY INFORMATION       6       6         28       7       8       7         29 SUBSTAIONS GREATER THAN 10,000 KVa       533       7       7         30 SUBSTATIONS SERVING ONE CUSTOMER       234       7       7         33 SUBSTATIONS LESS THAN 10,000KVa       266       7       7         34 SUBSTATIONS LESS THAN 10,000KVa       266       7       7         35 SUBSTATIONS LESS THAN 10,000KVa       10       10       10         36 SUBSTATIONS LESS THAN 10,000KVa       10       10       10         37 SUBSTATIONS LESS THAN 10,000KVa       10       10       10       10         38 SUBSTATIONS LESS THAN 10,000KVa       10 <t< td=""><td>7</td></t<>	7
23       ST LOUIS - ST LOUIS       Resale Distrib Unatt       46.00       8.32         24       46.00       4.16         25       SUMMARY INFORMATION       9         28       SUBSTAIONS GREATER THAN 10,000 KVa       533         30       SUBSTATIONS SERVING ONE CUSTOMER       234         32       SUBSTATIONS LESS THAN 10,000KVa       266         34       SUBSTATIONS LESS THAN 10,000KVa       266         35       SUBSTATIONS LESS THAN 10,000KVa       266         36       SUBSTATIONS LESS THAN 10,000KVa         37       SUBSTATIONS LESS THAN 10,000KVa	7
24       46.00       4.16         25       46.00       4.16         26       50       60       60         27       SUMMARY INFORMATION       60       60         28       60       60       60         30       60       60       60         31       SUBSTATIONS SERVING ONE CUSTOMER       234       60         32       60       60       60         34       60       60       60         34       60       60       60         35       60       60       60       60         36       60       60       60       60         37       70       70       70       70       70       70         38       70	2
25	3
26       9       SUMMARY INFORMATION       9       SUBSTAIONS GREATER THAN 10,000 KVa       533       9       9       SUBSTATIONS SERVING ONE CUSTOMER       234       9       9       SUBSTATIONS SERVING ONE CUSTOMER       234       9	
28       SUBSTAIONS GREATER THAN 10,000 KVa       533       SUBSTAIONS GREATER THAN 10,000 KVa       533       SUBSTATIONS SERVING ONE CUSTOMER       234       SUBSTATIONS LESS THAN 10,000 KVa       266       SUBSTATIONS LESS THAN 10,000 KVa       26	
29       SUBSTAIONS GREATER THAN 10,000 KVa       533         30	
30	
31       SUBSTATIONS SERVING ONE CUSTOMER       234	
32       33       SUBSTATIONS LESS THAN 10,000KVa       266       34         34       35       36       37         36       37       38       38	
33       SUBSTATIONS LESS THAN 10,000KVa       266	
34       35       36       37       38	
34       35       36       37       38	
36       37       38	
36       37       38	
37       38	
38	
vo	
40	

Name of Respondent		This Report Is:	iningl	Date of Report (Mo, Da, Yr)	Year/Period o	
Consumers Energy Compar	ny	(1) X An Ori (2) A Res	iginai ubmission	(MO, Da, 11) //	End of2	:004/Q4
		SUBSTA	TIONS (Continued)			
5. Show in columns (I), (increasing capacity. 6. Designate substations reason of sole ownership period of lease, and annual colorowner or other part affected in respondent's	s or major items of e by the respondent. ual rent. For any sul	quipment such as re quipment leased fre For any substation bstation or equipments	otary converters, recommon others, jointly own or equipment operated other the other accounting by	vned with others, or operated under lease, give han by reason of sole of tween the parties, and	erated otherwise name of lessor, o wnership or lease I state amounts a	than by date and e, give name and accounts
	Number of	Number of	CONVERSION	ON APPARATUS AND SP	PECIAL EQUIPMEN	NT Line
Capacity of Substation (In Service) (In MVa)	Transformers	Spare	Type of Equi		of Units Total C	apacity No.
	In Service	Transformers	(i)	()	(in M	
(f) 10	(g) 2	(h)	(1)	- 0		1
77	5					2
						3
88	2					4
	-					5
24	3					6
27						7
38						8
13	2					9
30	1					10
12	2					11
13	1	ĺ				12
10	1					13
13	1					14
13	1					15
						16
						17
						18
10	1					19
6	1					20
20	1					21
10	1					22
16	2					23
						24
						25 26
						27 28
						28
15456	785	4				30
						31
3965	351	2				32
						33
1366	315	17				34
						35
						36
						37
						38
						39
						40

# ELECTRIC DISTRIBUTION METERS AND LINE TRANSFORMERS

- 1. Report below the information called for concerning distribution watt-hour meters and line transformers.
- 2. Include watt-hour demand distrubution meters, but not external demand meters.
- 3. Show in a footnote the number of distribution watt-hour meters or line transformers held by the respondent under lease from others, jointly owned with others, or held otherwise than by reason of sole ownership by the respondent. If 500 or more meters or line transformers are held under a lease, give name of lessor, date and period of lease, and annual rent. If 500 or more meters or line transformers are held other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of accounting for expenses between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

			LINE TRANS	SFORMERS
1		Number of Watt-Hour		Total Capacity (In
Line	Item	Meters	Number	MVa)
No.	(a)	(b)	(c)	(d)
1	Number at Beginning of Year	1,817,765	593,562	
2	Additions During Year			
3	Purchases	61,355	17,546	
4	Associated with Utility Plant Acquired			
5	Total Additions (Enter Total of lines 3 and 4)	61,355	17,546	
6	Reductions During Year			
7	Retirements	49,240	(6,430)	
8	Associated with Utility Plant Sold			
9	Total Reductions (Enter Total of lines 7 and 8)	49,240	(6,430)	
10	Number at End of Year (Lines 1+5-9)	1,829,880	604,678	
11	In Stock	39,117		
12	Locked Meters on Customers' Premises	64,000		
13	Inactive Transformers on System		32,273	
14	In Customers' Use	1,726,763	572,405	
15	In Company's Use	-	-	
	TOTAL End of Year (Enter Total of line 11 to 15.			
1				

TOTAL End of Year (Enter Total of line 11 to 15.

16 This line should equal line 10.) 1,829,880 604,678

#### Dec. 31, 2004

### **ENVIRONMENTAL PROTECTION FACILITIES**

- 1. For purposes of this response, environmental protection facilities shall be defined as any building, structure, equipment, facility, or improvement designed and constructed solely for control, reduction, prevention or abatement of discharges or releases into the environment of gaseous, liquids, or solid substances, heat, noise or for the control, reduction prevention, or abatement of any other adverse impact of an activity on the environment.
- 2. Report the differences in cost of facilities installed for environmental considerations over the cost of alternative facilities which would otherwise be used without environmental considerations. Use the best engineering design achievable without environmental considerations. It is not intended that special design studies be made for purposes of this response. Base the response on the best engineering judgement where direct comparisons are not available.

Include in these differences in costs the costs or estimated costs of environmental protection facilities in service, constructed or modified in connection with the production, transmission, and distribution of electrical energy and shall be reported herein for all such environmental facilities placed in service on or after January 1, 1969, so long as it is readily determinable that such facilities were constructed or modified for environmental rather than operational purposes. Also report similar expenditures for environmental plant included in construction work in progress. Estimate the cost of facilities when the original cost is not available or facilities are jointly owned with another utility, provided the respondednt explains the basis of such explanations. Examples of these costs would include a portion of the costs of tall smokestackes, underground lines, and landscaped substations. Explain such costs in a footnote.

- 3. In the cost of facilities reported on this page, include an estimated portion of the cost of plant that is or will be used to provide power to operate associated environmental protection facilities. These costs may be estimated on a percentage of plant basis. Explain such estimations in a footnote.
- 4. Report all costs under the major classifications provided below and include, as a minimum, the items listed hereunder:
- A. Air pollution control facilities:
- (1) Scrubbers, precipitators, tall smokestacks, etc. (2) Changes necessary to accommodate use of environmentally clean fuels such as low ash or low sulfer fuels including storage and handling equipment. (3) Monitoring Equipment (4) Other.
- B. Water pollution control facilities:
- (1) Cooling towers, ponds, piping, pumps, etc. (2) Waste water treatment equipment (3) Sanitary waste disposal equipment (4) Oil interceptors (5) Sediment control facilities (6) Monitoring equipment (7) Other.
- C. Solid waste disposal costs:
- (1) Ash handling and disposal equipment (2) Land (3) Settling ponds (4) Other.
- D. Noise abatement equipment:
- (3) Sound proofing equipment (4) Monitoring equipment (1) Structures (2) Mufflers
- E. Esthetic costs:
- (1) Architectural costs (2) Towers (3) Underground lines (4) Landscaping
- F. Additional plant capacity necessary due to restricted output from existing facilities, or addition of pollution control facilities.
- (1) Preparation of environmental reports (2) Fish and wildlife plants included in Accounts 330, 331, 332, and 335
  - (3) Parks and related facilities (4) Other.
- 5. In those instances when costs are composites of both actual supportable costs and estimates of costs, specify in column (f) the actual costs that are included in column (e).
- 6. Report construction work in progress relating to environmental facilities at line 9.

		CHANGES DURING YEAR				
Line No.	Clasification of Cost (a)	Additions (b)	Retirements (c)	Adjustments (d)	Balance at End of Year (e)	Actual Cost (f)
	Air Pollution Control Facilities	43,365,671			756,443,342	
2	Water Pollution Control Facilities	559,496	323,078		237,265,168	
3	Solid Waste Disposal Costs	28			78,825,212	
4	Noise Abatement Equipment	-			1,538,548	
5	Esthetic Costs	-			26,944,000	
6	Additional Plant Capacity	-			14,286,000	
	Miscellaneous (Identify significant)	1,106,604			101,226,741	
8	TOTAL (Total of lines 1 thru 7)	45,031,799			1,216,529,011	
9	Construction Work in Progress				187,182,724	<u></u>

Miscellaneous (Line 7):	<u>Yr 2004</u>	
Environmental Protection Fossil Plants 316b Fish Entrainment	60,858	
K/W/CT's SPCC Oil Containment JRW Oil Containment LPS Oil Containment	377,115 49,727 13,140	
Recreation License Initiative - LPS Barrier Net/Monitoring	77,263	
Flood & Erosion Control Protection Hydro Plt Flow Gauging/Water Qual Monitoring & Comm System Spillway Mods - Hodenpyl & Mio	10,455 <u>518,046</u>	
Total	1,106,604	

# **ENVIRONMENTAL PROTECTION EXPENSES**

- 1. Show below expenses incurred in connection with the use of environmental protection facilities, the cost of which are reported on page 430. Where it is necessary that allocations and/or estimates of costs be made, state the basis or method used.
- 2. Include below the costs incurred due to the operation of environmental protection equipment, facilities, and programs.
- 3. Report expenses under the subheadings listed below.
- 4. Under item 6 report the difference in cost between environmentally clean fuels and the alternative fuels that would otherwise be used and are available for use.
- 5. Under item 7 include the cost of replacement power, purchased or generated, to compensate for the deficiency in output from existing plants due to the addition of pollution control equipment, use of alternate environmentally preferable fuels or environmental regulations of governmental bodies. Base the price of replacement power purchased on the average system price of purchased power if the actual cost of such replacement power is not known. Price internally generated replacement power at the system average cost of power generated if the actual cost of specific replacement generation is not known.
- 6. Under item 8 include ad valorem and other taxes assessed directly on or directly relatable to environmental facilities. Also include under item 8 licensing and similar fees on such facilities.
- 7. In those instances where expenses are composed of both actual supportable data and estimates of costs, specify in column (c) the actual expenses that are included in column (b).

	mn (c) the actual expenses that are included in column (b).  Classification of Expenses	Amount	Actual Expenses
Line		(b)	(c)
No.	(a)		
1	Depreciation		
2	Labor, Maintenance, Materials, and Supplies Cost Related to Env.		44 444 707
	Facilities and Programs	11,441,787	11,441,787
3	Fuel Related Costs		
4	Operation of Facilities		4.047.000
5	Fly Ash and Sulfur Sludge Removal	1,217,038	1,217,038
6	tally Olean Evole (1)	(191,518,000)	
7	Replacement Power Costs (2) W/Palisades	8,391,000	8,391,000
	Taxes and Fees		
9	Adminstrative and General		
10	Other (Identify significant)		04 040 005
	TOTAL	(170,468,175)	21,049,825
	<ul> <li>(1) Estimate based on the difference between the actual cost of environment of the estimated cost of high-sulfer fuels. The market price of high sulfur fuels.</li> <li>(2) Based on the average price of interchange power. Energy cost of the average production cost for the year.</li> </ul>		

FOOTNOTE DATA			
Page Number (a)	Item Number (b)	Column Number (c)	Comments (d)
Various	Various	Various	Amounts on schedules may not add to the totals and/or cross- referenced schedules may not reconcile due to roundings.